world news of medicine and its practice-fast, accurate, complete

Medical Tribune

and Medical News -

Wednesdny, July 11, 1973

UMEA, SWEDEN-Promising results from the contraceptive use of retroprogesterones were reported here by Dr. Erik Odeblad, of the Institution for Medical Physics et the University of Umca.

Retroprogesterones, in contrast to regu-

Medical Tribune World Service

TORONTO-Health authorities here are

planning to issue Medicere "credit cards"

that will provide computerized instent re-

trieval of e petient's totel medicel record,

including history, office visits, treatment,

end diagnostic end surgicel procedures.

Such Medieredit enrds are elready in use

in Quebec, Canade's second Inrgest prov-

ard T. Potter, Onterio Health Minister,

"It would result in easy preparation of pe-

tient profiles. It would be a means of in-

services. That con be done now but cer-

lold the Onterio Medical Association here.

"The idee looks pretty good," Dr. Rich-

Medicredit Cards for Health Care

Are Planned for Patients in Toronto

lar contraceptive pills, act on the atterine said that too little is known about its side sperm, and do not interfere with the body's total hormonol balance, he told MEUICAL

Voicing concern about the widespread use of the contnecptive pill, Dr. Odeblad

teinly with less sophistication than would

If the system is approved, a patient will

present his "eredit eard" when he applies

Dr. Potter acknowledged in an inter-

view, however, that the system could niean

loss of patient priviley. "Whenever govern-

runs n comprehensive prepaid medicare

scheme that last year cost \$540,000,000.

medical and hospital services.

be required if this is to become a tool for

controlling abuse."

of your freedom," he said.

He called attention to the number of women 115 per cent of 300 in his own institution) who become anovulatory for probuged periods once they stop taking

Also Called Mirror Hermones

Popularly called mirror hormones in Sweden, retroprogesterones are steroids in which methyl groups have a different configuration, usually a mirror image of the common form

Dr. Odeblad has used three retroprogesterones, RO 6-3129 aml RO 6-0175, from Roche, and Duphaston, from Philips, Hest results have been obtained with the first of

ment enters the picture, you lose a little bit When given to 28 women, retroprogesterones eliminated invasion, motility, and The provincial government of Ontario penetration of sperm in all but one woman during the effective time of the nill, he said. The optimal dose was found to be 16 mg., \$50,000,000 more than estimoled. Of that. and the effect lasted from four to 14 hours,

The short nction time presents both an

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corvical nucose, preventing the passage of effects and he added that vigorous efforts should be made to find a contraceptive substance that does not act directly on the

forming the petient of the cost of health \$515,000,000 went to doctors and the rest according to Dr. Orleblad.

In prescribing a tranquilizer for the essively anxious geriatric patient, ectiveness the only consideration?

re equally important.

The interior of the state of the s

The medical, economic and social problems of advancing years often impose an excessive burden of anxiety on some

counsel and reassurance. Frequently, however, the patient's anxiety persists at clini-

Hire

cally significant levels. In such circumstances, Librium (chlordiazepoxide HCl) 5 mg can be a particularly valuable adjunct, combining a proven antianxiety effect with a high measure of safety and patient acceptance. It is used concomitantly with certain specific medications of other classes of drugs such as cardiac glycosides, diuretics and antihypertensives. The need to discontinue therapy with Librium because of undesirable effects has been infrequent. The most common side effects reported have been drowsiness, ataxia and

for relief of excessive anxiety in geriatric patients

Librium 5 mg (chlordiazepoxide HCI)

initially 1 capsule b.i.d. or less up to 20 mg daily

Before prescribing, pisass consult complete product information, a summary of which tollows: indications: Relief of anxiety and tension occurring alono or eccompanying various disease sieles, Contraindications: Pelienis with known hypersensitivity to the date

or eccompanying various disease sieles.
Contraindications: Pellenis with known hypersensitivity to the drug.
Warnings: Ceution palienis ebout posablo combined elitacts with alcohol and other CNS depreasents. As with all CNS-acting drugs, ceution pellenis eseinst hazardous occupations requiring complete maniel electriess (e.g., opareting machinery, driving). Though physical end recommended doses, use caution in administering to addiction-prone individuals or those who might increase dosage; withdrawal symptome (including convulsions), tollowing discontinuation of the drug and similer to those seen with barbiturates, have been raported. Use of any age requiras their its polential benetits be weighed enautions; in the alderiy end debiliteled, and in children over six, limit to smallest effective dosage (initietly 10 increasing gredually as needed end tolerated. Not recommended in children under six. Though generally not recommended, it combination therapy with other psychophermacologic effects, paticularly in use of potentiating drugs auch as MAO imbiliors and phenothlezinas. or hepatic function. Paradoxicel reactions (a.g., oxcitene) psychietric petients and hyperactive aggressive children. Employ usual precautions in treatmant of anxiety etailed and be presented anxiety etailed and be presented anxiety etailed and be presented of impenred renal or employ usual precautions in treatmant of anxiety etailed anxiety etai elderly patients. In many cases, this excessive anxiety will respond to the physician's

in psychietric patients and hypersclive aggressive chilidren. Employ usual precaulions in freatmant of anxiety etalaa with evidence of impending depression; eulcidated tendencias may be present end protective measures necessery. Variable effects on blood coagulation have near reported very rerety in patients receiving the drug end oral anticoagulants; causal relationship has not been established clinically.

Adverse Reactions: Drowsiness, alaxie and confusion mey occur, aspecially in the elderly end dabilitated. Those are ment, but ere elso occasionally observed at the lower reversible in most instences by proper dosage adjust-dosage renges. In elaw instances syncope has been aruptions, edema, minor menatrual irregulerities, nausea and conetipation, extrepyremidal cymptoms, increesed and decreased libido—ell intrequant and generally conflow-voltage last activity) mey appear during and after insument, blood dyscrasias (including agranulocytosle), occasionally, making periodic blood counts and liver function tests advisable during protracted therapy.

25 mg chloridazepoxide HCI. Libritabse Tablets contain-

TB Patient Stahs Self To Get Into Clinic Medical Tribune World Serie

KARACIII. PAKISTAN-A 40-yearherculosis patient went into a ne station, stabled himself with the and was admitted to the Civil Nov here. He explained that he want cut the rest tape required for adults to the Karachi TB Sanatorium, my that he could gain the decenpathy and be admitted immedia taces a charge of attempted such

advantage and a disadvantage, D ldad observed. While the effect del become systemic, frequent doss g quired. Another disadvantage is tel individual cost of the retrogester

Dr. Odeblad believes that the pergesterone pill, if given continuale have the same effect on the pituite common contraceptive pill. He has think it should be administered

Retroprogesterones cause fee, ? side effects other than some away said. Careful search for precancers on the epithelial lining of the policy vicis have not revealed sny indicate the heginnings of any cancerous he reported.

Before treating patients with me gesterones, Dr. Odeblad primes for estrogen to arrive at a constanted state. Then, when the retroptors given, a complete blocking of sea; singe is observed within three to look and lasts up to Its hours.

ES A



Vol. 14, No. 26

A.M.A. Chief Retires

Hoffman Fears

Loss in Quality

Of Health Care

NEW YORK-The retiring president of

the American Medical Association

waraed his colleagues that "we will

never have enough physicians to meet

the demand . . . because it is based upon

Dr. C. A. Hoffman urged the organiza-

tion to "educate the American people to

peedup of medical

education that is "n

response to the bue

and cry nver the

so-culled physicinn

The Huntington,

convention that his

shortuge."

that fact" rather than purlicipate in the

unreasonable expectations."

W.Va., urologist told the A.M.A. nnnual year in the presi-

dency has bolstered his upinion that the main threst of current health care developments is to the quality of medical

Those developments, he neknowledged, laclude the A.M.A.'s bucking of experiments to shorten medical education. But the experiments Ignore the facts that medical students have to absorb more knowledge, that the manpower need is "nut narrowly trained superspecialists but human physicians who understand and relate to peoplo," that a physician's "most important single quality" is meturity of judgment, and that "whole physicians" need the rotsting internships largely abol-Ished with A.M.A. approvel.

The "threet to undermine the quelity of Continued on ringe 30

INSIDE THIS

 New Support for Pauling: Vitamin C need found 20 times higher than FDA recommends pg. 3

ISSUE

 Pregnancy monitoring system signals fetal distress pg. 12

• Experts call on U.S. to license "superior" Euro pean bronchodilator pg. 28

Medical Tribune Report

NEW ORLEANS-The incidence of vene-

real herpes virus infection has increased

"drnmalically" in the past five or 10

years, the third International Venerent

Although the disease, emised by type

herpes virus, is not as serious as syphllis

nr gonnrrhen, Dr. Mnrvin S, Amstey, of

the University of Rneliester, warned that

it is of "mujor Importance because it is

the enuse of Infection of the newborn,

"In addition, it has the seme epidemic

disease pattern as cervical cancer," the

and this infection is frequently fatol."

Disouse Symposium was tuld here.

Complete Index, pg. 2

Playwright Was Helped by Drug



A manie-depressive for 20 years, Joshua Logan (l.), shown working Shatner end France Nuyen on his 1958 production of "The World of Suzie Wong.

Lithium Held Drug of Choice In Manic-Depressive Illness

NEW YORK-Lithium is the drug of choice in the treatment and prevention of most manie-depressive disorders. Dr. Ronald R. Fieve, chief of psychiatric research at

the New York State Psychiatric Institute, told the American Medical Asso-

Incidence of Herpes VD in Dramatic Rise; ciation here. On the basis of his nwu and other Expert Cites Risk of Neonatal Infections

studies, he said, more than 80 per cent of ininic-depressive patients, most of them with histories of psychothorupy, electroshock, and polypharmacothempy, show "remnrkable improvement" on lithium earbonnte. These patients, he told an A.M.A. symposium on depression, can be followed monthly for mnnitoring of lithium blood levels as well as evaluation of their physical and emotional state.

In a highlight of his report, Dr. Fieve introduced the internationally known playwright-producer Joshun Lognn, who gave a firsthand eccount of his experience as a manic-depressive.

Monie persons, the psychiatrist stressed, aro olten highly successful, energetic, and creative people, and only occasionally

physician stressed. "In fact, some investi-gators have been attempting to establish Women's Needs Put Doctors 'at Crossroads'

n causal relationship between the virus

and this cancer. It is thus, for many

reasons, highly importent to recognize

the disease in pregnancy and prevent in-

fection of the newborn, and it is neces-

sary to identify those women who ero at

high risk as having abnormal Papani-

Observing that the clinical evidence

for herpes VD is hecoming increasingly

fumiliar, Dr. Amstey, who is Assistant

Professor of Obstetries and Gynecology,

snid: "Ten years ago practicelly no men-

tion was made of the infection. More im-

portent, it wesn't even considered n

venerent disease until the late 1960s.

coleon test results.

NIH peer review Program faces ax, science TB immunity

Naw group of lymphocytes Hernes VD "Dramatic" rise is reported

experts.

OUR BODIES

Fed up with traditional medicel attitudes, nomen are undertaking self-education and lemanding more of a say in own care,

Medical Tribune Report BAL HANBOUR, FLA .- A women gynecol-

ogist celled on both mele end female colleagues here to reelize that 10 years of "women's liberation" movements have produced e generation of women who ere not only expecting but elso demanding new ettitudes on the pert of their physi-

"We are el an important crossroedsthat of either changing to meet women's needs or condoning their own self-cere," Dr. Velerie Jorgensen told the annuel clinical meeting of the American College of Obstetriciens end Gynecologists.

Dr. Jorgensen, an Assistant Professor in the Depertment of Obstetries end Gynecology, University of Pennsylvanie School of Medicine, noted that women today ere belog chellenged by peer groups, books, end the news medie to teke en active role in their medical cere, sexual lives, and selection of goels.

Sexuel liberation hes brought a merked alteration in what women expect of their gynecologists, she emphasized. And the chenged expectations piece "a tremendous

Patients now insist, Dr. Jorgensen said, on being informed and educated about body functions. They demand to be treated with respect, to participate in their own care, and to share in reaching health decisions that affect them,

These, in her view, are reasonable demenda "that lead to better medical care," and sha warned that if they are not met potients will begin to treat themselves and each other for some genitally related prob-

Discussing the difficulties this generation is experiencing in edjusting to a new sexuel ewareness, Dr. Jorgensen commented thet women are in conflict over expectations that ere often unreel for their individuel altuations and over the problems inherent in sex without love or love without sex.

Gynecologists thus have a responsibility to discuss sexual practices and perform-

burden on the physicien, who must shift ence is so objective, nonmorelizing fashfrom his former medical omnipotence to ion with each patient, she declared, adding becoming e pertoer in the relationship of thet physiciens have neither the right nor Continued on page 30

Heart Group Begins Plan To Root Out High BP

Medical Tribune Report

societion has developed an ell-medie nationwide campeign in an expanded educational effort to find an estimated 11,500,000 Americans suspected of having undiagnosed high blood preseure ead to get them under effective treatment. Campaign kits sent to more than 200

affiliates in the 50 states coatein, among other meterial, radio messeges and TV films. These range from 30-second spota to three-minute feeturettes starring such performers as Stiller and Menre, Peggy Cess, Meureen Steple-10n, Mertin Belsem, Dayton Allen, and Al Freemen, Jr.

Reversal of Vasectomy Provides Only 1-in-5 Chance of Fathering a Child, According to Urologist's Study, Pg. 25



Huang explained, "is instructed to a

in the morning with an empty stometr

is asked to swallow the tube 100 1

balloon has passed the carda Trail

tul, of air is injected into the balkon,

the tube with the distended balloonied

drawn gradually. After the ballog it

come into the esophigus, the airig!

tially withdrawn and the traction of

tube continues until it is entirely and

extoliated cells collected on the sel-

of the balloon are made, stained by the

nicolaon's method, and examined in

The mass survey consisted of a groups. In the first, 7,686 cases said

pected esophageal careinoma sas

noma of the exaphagus or gasting

was tound in 510 cases, and olds

early carcinouna was found in 86182

In the second group, a mass sens

conducted in 1970-72 in 11,564 pa

over 30 years of age. Carcinomed

136 cases, and of these, early care

was found in 46 (7) per cent).

esophagus or gastric cardia wasfeeli

Dr. Hinning said that these figures:

compared with findings in 8,528 men

patients who came to the county by

for upper gastrointestinal disease for

them, 3.122 patients were found bis

carcinouna of the cophagus orga-

cardia, and of these, 212 weeinfage

Detected Early Cares

Dr. Huang noted that the masses

was effective in eletecting espanal

was of greater significance them

Roentgenologie examination and

stage 17 per cent1.

annined in the years 1963-69 (g

scopically.

Dr. Huang said that smears of

Faced with a national abortage of dentists, U. of Pa. has instituted an expanded dental hygicae program in which students learn to perform daties formerly reserved for ilentists. Abuve, student Pattl Finneran practices placing a restoration.

Biochemical Abnormalities Are Found In Huntington Chorea Victims' Brains

Medical Tribune World Service

VANCOUVER, B.C.-lavestigators at the University of British Columbia have found biochemical abnormalities in areas of brain of patients who died of Huntington's

Aarounts of gamma-aminobutyric acid, thought to be an inhibitory neurotransmitter, were significantly lower than normal, according to Prof. Thomas L. Perry, of the Department of Pharmacology, and Shirley Hansen, a research associate.

The finding was made in measurements of about three dozen amino acids and related compounds in 12 areas of the brain in eight Huntington's chorea cases, one parkinsonian case, and eight other cases of neurologic or mental diseases.

The investigators suggested that Huntington's chorea may be a good model for studying the biochemical basis of mental

New WHO Director Prays For Help in Oath Taking

Medical Tribune World Service GENEVA, SWITZERLAND-Prayer by WHO's new director-general, Dr. Halfdan Mahler, on taking the outh of office at the World Health Assembly:

"Help me to find the courage to change things I can, the screaity to accept the things I cannot change, and the wisdom to know the difference."

Esophageal Cancer Screening 20 Times That for 'RDA' Achieved by Cytologic Exam

BOLDONA, ITALY-Cytologic examination has proved to be an effective mass-screening technique for the early detection of carcinoma of the esophagus, according to Dr. K. C. Thiang, head of the Department of Surgery, Tranor Institute, Chinese Academy of Medical Sciences, Peking.

He told the second international Symposium on Cancer Detection and Prevention here that several such screenings have been conducted in North China, where carcinoma of the esoplagus is one of the most frequent malignancies en-

Sultable for Mass Survey

"The test is simple, accorate, easily accepted by the patients, und sultuble for arass survey and thilly OPD work," he sald, "Al present, it is widely utilized both In rural nail urbun areas."

Dr. Huang said that mass screening was undertaken after statistics revealed that the disease was already in an advanced stage in most patients seen in the city hos-

"Of the putients undergoing surgical intervention, more than half had lymph node metastases and the results were unsatisfactory," he said.

The apparatus used for collecting the cytologic specimens is a double-fumen rubber tube, measuring about 60 cm. in length, with an uhrasive balloon at the distal end. At the proximal end the double himen separates into two tubes, one for nir injection and the other for suction.

"The person to be examined," Dr.

Vitamin C Need Believed

Austin. Tex.-The results of a study of 50 young guinen pigs-un animal that, like man, lacks the ability to synthesize vitamin C-suggest that the need for the vitamin in young human beings for good health and development "is probably at least 20 times higher than the accepted recommended daily allowance," according to Man-Li S. Yew, Ph.D., of Clayton Foundation Biochemical fastitute, University of Texas at

This is one of the first experiments to deal with Dr. Lians Pauling's claim that the human need for vitamin C has been underestimated by a factor of 10 or more by the Food and Nutrition Bourd of the U.S. National Research Council.

Dr. Yew told MEDICAL TRIRUNE that the Food and Drug Administration has not queried her regarding the substantial challeage to the FDA's vitamia C position that her research provides.

Dr. Yew said that, in light of her research, the entire spectrum of human viiamin, mineral, and amino acid requirements needs review-a challenge to accepted medical doctrine.

"Due, however, to decades of neglect on the part of medical scientists, much practical information about human aeeds for various notrients in shrouded in confusion and uncertainty," the investigator charged.

Idantifiad 41 Yeara Ago

In presenting her findings, Dr. Yew said that "41 years have now clapsed since vitamin C, ascorbic acid, was identified, and it seems that by now medical science should have definite information about the crucial problem of how much of this vitnain hisman beings-including particularly children-need to promote good health and development. This Information would be

SAN DIEGO, CALIF,-In what was described

as the largest program of its kind ever con-

ducted, more than 40,500 persons from

the age of five up were screened here for

high blood pressure during Operation

Heart Alert last month. Nearly 30 per cent

were referred to their physicians because

effort had been expended to obtain it." In Dr. Yew's study, 50 young male

guinea pigs, fed a commercial chow formulated for their hreed, were tested when they reached an average weight of 350 Gia. After heing divided into five groups, one of which continued to cat the chow, funr groups were put on an ascorbate-free diet that was supplemented with vitnain C at four different levels of latake-0.05, 0.5, 5, and 50 mg./ 100 Gm. of body weight per dny. This represents n 1,000-fold mage in ascorbic acid intake.

Several Indices Were Used

Several indices were used to measure the influence of vitamin C in maintaining good health: average weight gnin per day before stress (surgery), average weight gain after streas, recovery from anesthesia, would healing and release of scabs, and amino acid analysis of regenerated akin

Dr. Yew found that the guinea pigs receiving the highest level of vitamia C did much better on nll indices, with the 5 mg. dosage proving almost as helpful as the 50 mg, intnke-which may have been too much for some of the animula.

Individual guinea pig requirements for the vitamia were found to vary grently throughout the study. One animal at the lowest intake level exhibited a good growth rate of 6.3 Gm./dny, while another animal in the same group lost 4.2 Gm./ day. But the variation was greater at lower intake levels than at peak consemption. Dr. Yew concludes that since high levels of vitamin C supply the entire guinen pig population adequately, this accounts for the fewer variations at the peak consumption level.

The 5 mg./100 Gm. of body weight per

Isolation Used to Break Anorexic Pattern

Medical Tribune World Service

GENEVA, SWITZERLAND-Isolation treatment is effective in breaking the pattern of the symptoms in ulmost nil cases of anorexia nervosa, according to Dr. Alain Guan-Sechehaye, consultrat paychiatrist at Geneva Cantonal Hospital.

But success requires the coordinated effort of the entire medical team, he warned, and it is not ensy to give severe, almost harsh, trentment to a young woman who is dangerously near death by starvation, self-imposed though her condition

"By the time she arrives in hospital," he said, "the patient usually looks like a starved little bird, and the nurses want to pamper and mother her, to beg her to eat. It goes against all their motherly instincts and their training to atand off and refuse to fall into the dependence-feeding relationship the patient has usually had with her mother," Dr. Gunn-Sechehaye said.

His first mee in the treatment of this allment, which usually occurs in young girls in whom it is considered a refusal to accept womanhood, is to make the medical team realize that a solicitons attitude will only and realizes that the team caring for her is

reinforce the symptoms and increuse the danger to the patient.

"This includes the doctor, whuse futher feelings make it difficult for him also," Dr. Gunn-Sechehayo contlaued. "Anorexic patients sometimes lose up to 5 per ecat of their normal weight in a few moaths, and it is very moving to see a very serious case of a young girl arriving at the hospitul welghing about 30 kilos or so."

The anorexic putical who arrives ut Geneva Cantonal Hospital in a daagerous state in installed in a locked private room. No flowers, no visitors, no communications with family or friends are allowed. The patient is isolated completely from her normal outside environment. The nurses and doctor maintala a reserved attilude.

Explains Whet-Often Why

Dr. Guan-Sechehaye explains to the pnlient what he is doing and generally why. The patiant seeks to re-create in the hospital aituation the same battle over food dining table, Dr. Gunn-Sechehaye said. When she meats insurmountable obstacles

absolutely determined, she first agonizes and becomes irritable.

"We must remember that to eat causes the patient real distress," Dr. Ginni-Sechebuye observed, "That will mean she will take shape, she will become feminine, she will have sexual feelings, contacts with young men. As lung as shu stuys a baby, she is pleasant and sweet and manfraid But when you begit the hursh treatment, she becomes nervuns and aggressive and occuses us of being ernel to her."

There are those who disagree with his approach, he said, "but it works. It provukes a more authentic relationship and permits us to direct and use that relationship for effective treatment."

In only one case did Dr. Gunn-Sechehave find isolation freatment insufficient to break the puttern of starvation, and in this case he added electrotherapy to reinforce it and was successful, he reported.

Most anorexic patients, he said, fall achieve a real coasciousness of their prohlem and are willing to undergo psychoanalytic treatment for months or even years, to her behavior la restrictlag her eating and those whose consciousness of their illnass is poor or nonexistent.

riest out in cases with positive of

lindings, with marked hyperplainer symptoms of caremona but regards logic findings. Results were eximal a joint group of cytologists, realign gists, and surgeons, and examinations repeated whenever a discrepant "The rate of consect diagnosising

gradually from 87.8 per centin 180 91.4 per cent in 1969," Dr. Heags "The cure rate has been very my creased for the early cases," he sale

Amung 32 cases that underseef tion more than n year ago, there were operative deaths-one death a jer ! operation with recurrence, one for) luter of carcinoma uf the cereit-ad deathy four years inter from disease related in emphageal cardnama. Of patients still living, 21 have in reached live-year survival-

"It is worth-while to point out that mass or obvious abnurmality could? pated on exploration of the esophagus the extent of resection was determine cytologic, roratgenologic, or ender examinations," Dr. Huang said. CLINICAL NEWS NOTE: "Cromolyn sodinin has been found most efficacions in many

of elevated readings. The program was conducted at 13 CHEC Community Hypertension Evaluation

40,500 Tested for High BP

Clinic) stations by 1,200 medical, paramedical, and lay volunteers. It was aponsored as a community service project by the San Diego County Heart Association, tha San Diego County Medical Society, and CIBA Pharmaceutical Company.

Raymond Burr and his "Ironnide" team the active cochairmen of Operation Heart Alert, under the general Chairmanship of Dr. Gerald Person.

100,000 Have Been Screened

To date, more than 100,000 persons across the country have been acreened for high blood pressure by CHEC programs and 29 per cent have been referred to their

The referral rate of nearly 30 per cent in the Saa Diego area "was bigher than

ECTOPIC BEAT

Dr. Ewing said that according to is study, 'as matijuana use goes up, so does allentation."

release from University of North Carolina Division of Health Affairs, And down goes spelling. legular best: Immateria Medica, page 31.)

In San Diego; 30% Referred unticipated," according to Dr. William T. Adams, president of the Sun Diego County Medical Society, who said he had expected a rate of 25 per cent.

Dr. James Lasry, president-elect of the Snn Diego County Heart Association,

"We were most gratified by tha program. The number of persons screened in this two-day program was 10,000 more than in previous programs, and the followop study and spinoff in education, public nwareness, and general information will prove most valuable."

Parents Help Care for Hospitalized Children

M ANY HOSPITALS are loday experimenting with allowing parents to be with their hospitalized children. The Care With Parent Program at Mount Zion Hospital ia Saa Francisco nllows the parents of a hospitalized child to share his room and take over some of the duties of caring for the child under staff supervision. The parents also learn the nursing techniques that will be accessary during a prolonged convalescence or chronic illness as well as giving the child emotional support and comfort,



Above, a woman whose daaghter is a patient makes up the chair-bed she sleeps on in her daughter's room, Right, she learns how to take the giri's blood prassure under instruction from nurse-coordinator Lynn Noonan. Below, the mother fixes ber daughter's hair. The personal attention given by the parents has done much to cheer the children.





Infant Respiratory Distress Linked to Deficient Thyroid into two categories: those who are able to that she had at evary meal at the family ing operation for all these cases near the annual meeting of the American Pedi- tha maternal thyroid status-the pincenta of Doa Galloway and Elizabeth Baur were SAN FRANCISCO-Infants born with respl-

ratory distress syndroma (RDS) have lower thyrold hormone activity than premaa atudy reported here by Dr. Raiph A. Redding, Assistant Professor of Medical Sciences at Brown University.

He noted that when lung aurfactant is not present in sufficient quantity at the alrfluid interface within long aiveoil, collapse of air saca and a striking increase in work of breathing occur and that these two pathophysiologic features are characteristic of RDS of the newborn.

Working with adult rats, he and bis colleagues demonstrated that thyroid bormones, both L-tbyroxine and tri-lodolhyronine, are potent slimulators of lung surfactant production and stimulate production of lamellar inclusion bodies within type 2 pneumonocytes.

"Because of these animal studies, we felt that an assessmeat of thyrold function in human newborns was needed to evaluate its relationship to the presence of RDS and lung surfactant deficiency," he told

atric Society and the Society for Pediatric Research. The sludy mensured the total serum

ture or full-term control babies, according thyroxine (T4) and tri-iodothyronine resin optake in 40 premature infants with RDS, in 39 prematures without RDS, in 22 full-term babies, and in their respective

T, Level Low in RDS Group

The mean T4 level from cord blood at birth was significantly lower in the RDS prematures than in the other two groups of babias, ha reported. Two days following delivery, the mean venous drawn blood serum T4 did not rise as high in the group with RDS as In the prematures without RDS, and the difference was nignificant. When matched by gestational age, those bables with RDS were always significantly lower than prematures who did not encounter pulmonary difficulty.

A number of investigators, he noted, have shown that thyrold maturation in the growing feton is largely independent of

acts as a barrier and is impermeable to the transfer of L-thyroxine, tri-iodolhyronine. or thyroid-stimulating hormone.

"This atudy," he commented, "would tend to confirm this information aince mothern of prematures with or without RDS had similar total T4 levels and free thyroxine indexes, while tha two groups of premature babies themselves were significantly different."

It is well established, he remarked, that the appearance of type 2 pneumonocytes, osmiophille lamellar inclusion bodies, and lung sorfactant lecitbln in the developing fetus occurs within the last 15 to 40 per cent of normal gestation.

Dr. Redding concluded: "Since L-thyroxine has been shown to be n potent regulator of lung aurfactant production. believed to be deficient in RDS of the newborn, an association between lung immaturity and fetal thyroid function in postuiated."

Coauthora of the report were Drs. Celina Pereira and John T. Barrett.

NEWS INDEX

Medicine: pgs. 1, 3, 9, 12, 25, 28, 31 Ob/Gyn: pgs. 1, 9, 12 Vitamin C animal atudy suggests that the human requirement is 20 times greater than the present RDA3

Operation Heart Alert screens 40,500 persons for high blood preasure in largest program of its kind3. Vasectomy patiants have a one-in-five

chance of fathering children if they elect to reverse the procedure25 European bronchodilntor is termed superior, and FDA approval for its use

severely affected asthmotic patients only partially controlled by modern ollergy therapeutic methods. . . . " (Dr. Mayer B. Marks; see page 28.)

altoring system registers act only the progress of high-risk pregnancy but also signs of felal distress . . . 12

Pediatrics: pgs. 3, 12, 28 Maternai alcoholism and a pattern of malformation in children born to stich

Psychiatry: pgs, 1, 31 Life crises are related to illness onset on a scale based op 43 events that require personal adjustment

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Transferring tumor resistance from one animal to another is found possible in

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nosed at stage 1 Patient's age is found to be an important factor in the mortality risk of the Blalock-Taussig operation 28

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Carlbons 9,1 In Consultation Editorials Letters to Tribune ... Editorial Capsuley . . Therapentic Briefs ... Pediatric Progress

MEDICAL TRIBUNE is published each Webst. day except on Jan. 31. May 30, Apr. 19 and Oct. 31. by Medical Tribune. Inc. and Avs. New York, N.Y. 10072. Controlled Avs. New York, N.Y. 10072. culation posture paid at fathur 11735, Subscription \$1230, Stu

Dr. Irwin I. Lusowe, Clinical Professor of Dermatology, New York Medical College, and Attending Dermatologist, Metropolitan Hospital Center, New York; nuthor of The Modern Guide to Skin Care and Beauty.

Next In Consultation

- . . will answer such questions as:
- Should patients be warned about photosensitization of the skin by certain drugs?
- · What are beneficial effects of preventive ingestion of psoralen, pyrodoxine, and aspirin before sun exposure?



What's new and important in pulmonary medicine?

The Consultant

DR. SPENCER K. KOERNER Chief, Division of Pulmonary Medicine, Montefure Hospital and Medical Center, New York.

10 per cent or less..."

TTHE LAST FIVE YEARS have seen the development of respiratory intensive care viding superspecialized care to patients with acute respiratory insufficiency, have resulted in a marked improvement in prognosis for these extremely sick patients. There is no uniform agreement as to the definition of respiratory insufficiency.

What daily home regimen do you prescribe for the patient with chronic obstructive lung disease?

cessful lung transplants?

This is an exciting new area of research which has shown some promise of being n therapeutle modality in the future. There

Although it has been shown that pul-

monary rehabilitation programs and vari-

ous treatment regimens do not seem to

improve pulmonary function or prolong

survival, there is evidence that patients in

such programs do function more efficiently and more comfortably. I therefore rec-

onimend enrollment in a program of hoth breathing and general conditioning exer-

cises as well as 1PPB treatments at home.

"I...recommend...hreath-

ing and general conditioning

exercises as well as IPPB

treatments at home."

have been approximately 30 lung transplants done to date for terminal pulmo-Bronchodilators are useful in some panary disease with the longest survival betients, and in severe cases of chronic obing 10 months. We have performed four structive lung disease a regimen including transplants at our institution, and one of daily antibiotics-either ampicillin or tetour patients lived on room air without venracycline in doses of 250 mg. four times tilatory assistance for nlmost six months. daily-seems to reduce the incidence of in-This man had been attached to a ventilator for three years prior to aurgery, so we considered the transplant to be at least What are the prospects for sucpartially successful. In time, with improved immunosuppressive techniques, we feel that lung transplantation will be a therapeutic procedure with results that are similar to those obtained with kidney



by tension headache

Lat Fiorinal help release the patient from the aching pressing, painfully tight fealing of tension headache, its analgesic components help relieve pain while its sedative component helps relax the patient.

SANDOZ PHARMACEUTICALS EAST HANOYER, N.J.



Each tablet or capsule contains: Sandoptai® (butalbitai) (Warning: May be habit forming) 50 mg.; caffaine, U.S.P., 40 mg.; aspirin, U.S.P., 200 mg.; phenacetin, U.S.P., 130 mg.

Contraindications: Hypersansitivity to any of the components Pracaulions: Dua to presence of a barbiturate, may be habit forming. Excessive or prolonged use should be svolded.

Side Effects: In rare instances, drowsinass, nausea, constipation, dizziness, and skin rash may occur. Adult Dosage: One to two teblets or capsules, repeated if necessary up to 6 per day, or as directed by physician. Before prescribing, see package insert for full product information.



prescription for Ismslin. Her blood pressure was no longer responsive to milder agents. So her physician decided that this was the right time to add Ismelin. Because Ismelin is guanethi-dine, perhaps the most effective antihypertensive ever available for moderate to severe hypertension: And when blood pressure is controlled with Iamelin, it usually stays controlled.

When Ismelin is added to thiazides, increments must be gradual and dosage of all drugs reduced to lowest effective level once blood-pressure control is established.

often are minimized. Patients should be warned about initial dosage adjustment and with postural changes. They should avoid sudden or prolonged standing or exercise and should sit or lis down if dizzy or weak.

Uncontrolled hypertension of any patient's future well-being.

Ismelin[®] sulfate (guanethidine sulfate)

sooner may be better for the uncontrolled hypertensive

With reduction of dosage, side effects

orthostatic hypotension, especially during

ATRADITION OF BASIC RESEARCH Looking for molecular "keys" to lit biological locks" CIBA-GEIGY research chemists synthesize more than a thousand new compounds eoch yeor. By going back to the "bosics"—the lunda-mental relationship between

ISMELINE sullate

Ignation indicate sullater

INUICATIONS: Trimally for several presented chronitor at blood presente (particularly diastolic and almost all forms of living and progressive hypertenesive disastise, owns when blood pressure chronitors is mostlerate. Not recommended for laboration is mostlerate. Not recommended for laboration and all the presenting and application of the presenting of the progressive plants of the progressive plants of the progressive plants of the plants o

the ned trac wille MARO influiders.

WARNINGS: Ismellar is a patent drug and can last be disturbing and serbuse; threat problems, warn patients not to deviate from instructions and ston the patients have desaffectually. To prevent lebiting that is a mention between with organ of distinct instructions and stong interest studied set or the deavy with organ of distinct as a versaliness, which may be particularly better a min that may that do sage adjustment and with prostural chatages. Performing and is accompanied by held wealther, also do not reached. Warn patient to won! sudden or prolonged standing or exercise while laking is melian.

Concernment ose with intervallar derivations are

Construced use with nauvollia derivatives may cause excessive postural hypotension, bradytada, and mental depression.

and mental depression.

If possible, withit are therapy 2 weeks prior to surgery to avoid possible vascular colleges and is rethrest hazard of cardiac arrost ouring anested; if emergency surgery is indicated, administer preparestability, and anestitude, agents carliously is reduced desage with oxygen, alrapine, and vascuckes with oxygen alrapine patients on tamelin may have a greater proposity for sense arrivalturias.

arity litridas.
Febrile litridas, reay realice dos igu regulemente.
In frank Congosilve heart Labaro not due to hypertristori, famelin is not recommender. Due to raice febrularithe despoissants and reason as a febrularithe despoissants.

aspurat, the relief condition may be againsted.
Use in Pregnancy
The tallely of tending for the including to be desired to be a stabilished. Develope, this dog should be used in pregnant patients only when, in the degraph of the physician, its new is deemed essential to life welfare of the patient.

ment of the physician, its new is deemed essention to the well-no of the pattern.

PRECAUTIONS: Give very unitously to hypetessives with tol remai decide with infregenetable tol coronary discuss with intregenetable tol coronary discuss with interest varieties and ones, especially with an ephatopathy, and (figure BLIN lovets. Give with reference cauton between the severe congestive latings. Which is right gain in eitema in potents with incipient cets the more compensation. It digitals is used with feet and incompensation in digitals is used with feet. America and traditionary slow the beartax. America angression is the amplitude angression in the hypotential stimulants (e.g. epitech line, multipliphenicals), and incipality in the content of lamining many decrease the hypotential digit of lamining in other charms the hypotential offer tol lamining may decrease the hypotential offer tol lamining before a failing lamining and her incipal may decrease the hypotential offer the lamining may be hight when a highest thick turned in may be highest and her lamining to the lamining and her lamining the lamining and her lamining to the lamining and her lamining a

libis individuals.

DOSAGE ANO AOMINISTRATIONI Initial desage should be low and increased gradually by small increments.

Before starting therapy, consult com-pieta product theraturo.

HOW SUPPLIEO: Tablets, 10 mg (palo yellow, scored) and 25 mg (white, scored); bottles of 100 and 1000.

chemical structure and theropautic octivitychillely new classes of drugs ore developed.

CIB

An important step was taken to re-control her hypertension and decrease her vulnerability to organ damage Emmy Burns just received her

·...a tremendous improvement in survival ... Mortality rate has been reduced to

units in many hospitals throughout the country. These units, capable of pro-

Although some would accept just the presence of dyspnea as being sufficient to classify a patient as having respiratory insufficiency, others feel that hvpoxia and hypercspnea are essential to this diagnosis. In past years, hospital admission with a pCO2 over 55 mm. Hg was associated with a mortality of 30-50 per cent. This was clearly unacceptable and resulted in the advent of respiratory ICUs to provide the critical care necessary for these patients. This care includes obtaining appropriate smears and cultures to allow for proper satiblotic therapy, particular attention to broachial toilet, chest physiotherapy and intensive monitoring of clinical status, vital signs, and arterial blood gases. IPPB is administered and, if necessary, ventilatory assistance following endotracheal intulation or trachcostomy. These techniques and the assignment of nurses specialized in the care of patients with acute and chronic pulmonary disease have resulted in a tremendous improvement in survival. In several reports as well as in our own unit, the mortality rate has been reduced to 10 per cent or less as compared to the

prior figure of 3t) to 50 per cent. This is a highly significant step but, unfortunately, entelies the patient near the end of his progressive illness. A much more rewarding effect can be obtained by furthering the preventive medicine aspects of pulmonary disease, particularly those aimed at preventing people from smoking and stopping those already afflicted with the habit.

What pulmonary function tests can the physician carry out in his own office? When should he turn to the laboratory?

with the forced expiratory volume in the first second (FEV1), can be helpful in the diagnosis and management of patients such as those with obstructive pulmonary disease. There are many instruments available for office use which obtain the vital capacity, FEV,/FVC, and maximum expiratory flow rate. Tests such as the gross response to bronchodilator therapy of an fusing capacity, residual volume, complicoming more aware of the fact that very early detection of chronic obstructive lung disease is necessary in order to observe improvement with treatment. At present specialized tests, such as closing volume. and frequency dependence of compliance, are necessary for this and are almost exclusively done in pulmonary function lab-

The forced vital capacity (FVC) is a relatively simple test and, when combined asthmatic patient can be followed quite adequately in the office, Specialized equipment is required for measurement of difficulties. ance, exercise response, airways resist-ance, and arterial blood gases. We are be-



When cardiac complaints occur in the absence of organic findings, underlying anxiety may be one factor

The influence of anxiety on heart function

Excessive anxiety is one of a combination of factors that may trigger a series of maladaptive functional reactions which can generate further anxiety. Often involved in this vicious circle are some cardiac arrhythmias such as paroxysmal supraventricular tachycada and premature systoles. Since these symptoms resemble those associated with actual organic disease, the overanxious patient needs reassurance that they have no organic basis and that reduction of excessive anxiety and emotional over reaction would be medically beneficial.

The benefits of antianxiety therapy

Antianxiety medication, when used to complement counseling and reassurance, should be both effective and comparatively free from undesirable side effects. Extensive clinical experience for more than 13 years has demonstrated that Librium fulfills these requirements with a high degree of consistency. Because of its wide margin of safety, Librium may generally be administered for extended periods, at the physician's discretion, without diminution of effect or need for increase in dosage. (See summary of product information.) If cardiovascular drugs are necessary, Librium is used concomitantly whenever anxiety is a clinically significant factor. (See Precautions.) Librium should be discontinued when anxiety has been reduced to appropriate levels.

For relief of excessive anxiety and related cardiac dysfunction

Adjunctive
Librium 10mg
(chlordiazepoxide HCl)
1 or 2 capsules t.i.d./q.i.d.

ROCHE | Roche Laboratories | Division of Hollmann-La Roche Inc.

Before prescribing, please consult complete product information, a summary of which follows: Indications: Relief of anxiety and rension oc-

cutting alone or accompanying various disease states.

Contraindications: Patients with known hypersensitivity to the drug.

Warnings: Caution patients about possible combined effects with alcohol and other CNS depressants. As with all CNS-acting drugs, caution patients against hazardous occupations requiring complete mental alertness (e.g., operating machinery, driving). Though physical and psychological dependence have rarely been reported on recommended doses, use caution in administering to addiction-prone individuals or those who might increase dosage; withdrawal symptoms (including convulsions), following discontinuation of the drug and similar to those seen with barbiturates, have been reported. Use of any drug in ptegnancy, lactation, or in women of childbearing age requites that its potential benefits be weighed against its possible hazards.

Precautions: In the elderly and debilimted, and in children over six, limit to smallest effective dosage (initially 10 mg or less per day) to preclude ataxia or oversedation, increasing gradually as needed and solerated. Not recommended in children under six. Though generally not recommended, if combination therapy with other psychotropics seems indicated, carefully consider individual pharmacologic effects, particularly in use of potentiating drugs such as MAO inhibitors and phenothiazines. Observe usual precautions in presence of impaired renal or hepatic function. Paradoxical reactions (e.g., excitement, simulation and acute rage) lave been reported in psychiatric patients and hyperactive aggressive children. Employ usual precautions in treatment of anxiety states with evidence of impending depression; suicidal tendencies may be present and pratective measures necessary. Variable effects on blood congulation have been reported very rarely in patients receiving the drug and oral anticoagulants; causal relarionship has not been established clinically.

Adverse Renctions: Drowsiness, nraxla and confusion may necur, especially in the eldetly and deblitmted. These are teversible in most instances by proper dusage adjustment, but are also occasionally observed at the lower dosage ranges. In a few instances syncope has been reported. Also encounteted are isolated instances of skin eruptions, edema, minor menstual irregularities, nausea and constipation, extrapyramidal symptoms, increased and decreased libido—all infrequent and generally controlled with dosage reduction; changes in EEG patterns (low-voltage fast activity) may appear duting and after treatment; blood dyscrasias (including agranulocytosis), jaundice and heparic dysfunction have been reported occasionally, making periodic blood counts and liver function resis advisable during protracted therapy.

during protracted therapy.

Supplied: Librium® Capsules containing 5 mg,
10 mg or 25 mg chlordiazepoxide HCl. Libritabs® Tablets containing 5 mg, 10 mg or 25 mg chlordiazepoxide.



Dr. Frank W. Clippinger, of Duke University Medical Center, has developed a prosthesis for the arm that will allow the amputee to feel pressure in the hook end of the limb. As the patient exerts pressure with the hook, the median nerve in his nrm is electrically stimuloted, producing a sensation that varies from light to strong in direct proportion to the force exerted at the hook.

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your eyes

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Aparthus of the second standards

RNA Found Able to Transfer Tumor Resistance in Animals

RESEARCH

Medical Tribune Report

ATLANTIC CITY, N.J.- Investigators from the University of Illinois, the National Cancer Institute, and the University of California at Los Angeles reported here, from twn sets of animal experiments, that RNA is canable of transferring tumor resistance from one population of cells to another and from one animal to another.

Round Punne, Ph.D., of the University of Illinois, told the American Association for Cancer Research that when the Chlcago-NCI group used two antigenically disparate hepatoma cells, both induced by diethylnitrosamine, as inocula to stimulate spleen and lymph node lenkocytes, it found that RNAs extructed from the guinen pigs were specific for the cell line induced even though the careinogen and the tumor site were identical.

Their assay, Dr. Paque reported, was the inhibition of movement of macrophages taken from peritoneal exudates of

(brand of phenylophilno) HCI.

animals not exposed to the hepalomical but treated with spleen and lymph and with spleen and lymph and with the spleen and the spleen an BCG as a buester. The nucleic acid as extracted only from animals that some fully rejected the cells.

The two sets of hepatoma cells p known as line I and line 10. When as gens from line I were put into the capital tubes with RNA from animals the al jected line t cells, the exudate cells for mexposed animals were marked in hibited in the macrophage inhibitions; that RNA from line 1-injected man had no effect when antigen from her was put into the tubes, Dr. Paque sad h from line 10-injected animals.

RNA Rolo Considered

The investigators commented: 1 RNA may well be dictating formation receptors and/or mediating substant reconstitute immunity in the perlic

Coinvestigators were Berton Shar, Re-bert Rapp, Monte Meltzer, and Sheh

Dr. Yosef II. Pilch and Marian Links Israeli, Ph.D., of U.C.L.A., also be: RNA from spleen and lymph noted but from minor-"immunized" mice Tke RNA extracts, added to culture de sensitized spleen cells, boosted the gratoxicity against target cells, they report They also found that intraperhoodis jections of tumor-immune RNA me every other day reduced tumor this is mice challenged with fibrosacome.

Another finding was that liver RNA tracts were also copuble of contains some timor protection and, furbe, is the process could cross species line-Mi from ginnes pigs injected with nee tumor cells could also protected at produce the added cytotoxic claims

Vitamin C Needs May Be 20 Times As High as 'RDA'

Continued from page 3 day level appeared to be close to hely quired three for good health, but whether is high or low by 1 or 2 mg. "doss at concern us. We are more concerned

thu order of magnitude," Dr. Yew said "The hurden of proof must now side the medical scientists who are really at condition of young people to show is pigs do not apply to young ping declared.

The investigator found that the vital C level needed by guinea pigs and a young human beings in order to prete scurvy is about the same on a body well hasis. Thus, since the guinea pig lends adequate consumption in the research found to be 250 times greater than the scurvy-prevention level, the hypobes that human beings also need as media 250 times the seurvy-prevention dos appears possible.

Dr. Yew's sludy was published in h April, 1973, issue of Proceedings of he National Academy of Sciences. It was it rejection by the editors of Proceedings.
Dr. Linus Pauling's article on vitamin that led lo his charges of censorship.

Cost of Health Care Rises 30% in Italy Over Lasi 12 Months Medical Tribune World Service

ROME—The cost of health care in Italy has jumped 30 per cent in the last 12 months. The increase was due to a cost increment of 105 per cent for hospitals from 1969 to 1972, a rise of 20 per cent for medical expenses, and a larger number of visit required by patients.

Health Service Cuts Called an Attack On Family Planning Among the Poor

New York-Proposed Federal regulations lo govern the funding of health service delivery projects for low-income persons have been sharply criticized by Dr. Alan F. Gullmecher, president of the Planned Parenthood Federation of America, os a "cynical exercise intended to dismantle or cut back drastically Federal health pro-

The proposels would "violate the expressed intent of Congress" when it adopted femily planning and other specific health programs, he declared.

In a letter to the Health Services and Mealel Health Administration, Dr. Guttmacher charged that "implementation of these regulations would lead to denial of family planning services to millions of low-income women who need and want

The proposals call for substitution of smoll and confined to the breast still die "third-party reimbursement" mechanisms within five years, Dr. Woodruff told a were watched and were removed only if

for categoric project grant assistance. Such a move, according to Dr. Gullmacher, would "directly contravene-in fact, discard altogether"-the Administration's and President's expressed policy, reiterated in the introduction to the proposed regulations, that "no person is to be denied service solely because of inability to pay herefore."

MELBOURNE. AUSTRALIA-Some form of

gery at the University of Edinburgh.

Surgery-Immunotherapy Seen for Breast Ca sponsored by the Royal Melbourne Hosimmunotherapy moy in the future be com-

bined with surgery for carcinoma of the Sir Michael said he was impressed with results in a Kings-Cambridge trial designed breast diagnosed at stage 1, occording to to determine the fate of lymph node metas-Sir Michael Woodruff, Professor of Surlases following simple mastectomy. In one Twenty-five per cent of patients adegroup of patients, palpable lymph nodes quotely operated on while the lump is were oot removed during the first two months after simple mastectomy; but they

Symposium on Immunology and Cancer they were clearly growing. Seventy-five per cent of these nodes ceased to be palpable.

> This surely suggests that an immunologic process was occurring and makes a prime facie case for watching the node, Sir Michoel observed.

He holds some hope, he sald, that Corynebacterium parvum, a stimulator of macrophage activity, may provide the Immunopotentiation needed



Tanuale (disthylpropion hydrochlorids N.F.) is a useful adjunct to a total waight managament program, espacially when patients tall to respond to diet.

BRIEF SUMMARY Indication: Overweight, Tanuels is indicated as an aid to control overweight, perticularly where it complicates the treatment or prog-nosis of cardiovascular disease, diabetes, or pregnancy. (See Warning.)

Sased on a review of Tenuate Dospen (confinuous release) by the National Academy of Sciences — National Research Council and/or other information, FDA has classified the indication for Tenuale Dospen as follows:

"Possibly" affective: Overweight Finel classification of less-then-ellactive indication requires further investigation.

Controlndications: Concurrently with MAO Inhibitors; in pollants hypersensitive to this drug; in emotionally unstable patients succeptible to drug abuse.

Werning: Use with great ceution in patients with severe hypertension or severe cardiovascular disease.

vascular diesase. Do noi usa during lirel trimsater ol pasgnanoy unless potential benetite outwelch potential

risks.

Adverse Regolions: Rarely severe enough to require diecontinuation of therapy, unpresent symptoms with diethylpropion hydrochlorida have been reported to occur in relatively tow incidence. As is cherocheristic of sympatho-

incidence. As is characteristic of sympathomimetic agente, it may occasionally cause
CNS ottacte such as insomnia, narvourase,
dizzinase, anxiety, and litterinose. In contrast,
CNS deprosation has been reported. In a few
epitaplics an increase to convulsive opteodes
has been reported.

Sympathomimetic cardiovascutar effects
reported include onse auch as tachycardia,
precordiat poin, orrhythmia, palpitation, and
increased blood pressure. One published
report described T-wave chenges in the ECG
of a healthy young mate etter ingestion of
dishylpropton hydrochloride. Altergic phenomens reported include such conditions as
rash, urticaria, achymosia, and erythems.
Gestrointestinal altacts auch as diarrhae, conetipátion, nausas, vomiting, end abdominal
discomfort have bean reported. Specific reports
on the hamalopoletic system include two each n iha hamalopolelic system includa iwo eaci il bona marrow depression, agranulocytosia, ind leukopenia. A variety of miscellansous and teukopenta. A variety of miscellarisous adverse resictions have been reported by physicians. These include complaints such as dry mouth, headachs, dyapnes, mansitual upsel, helr foes, muscla pain, decreased libido dysuria, and polyuria.

Conventence of two dosegs forms: Dospan® labilets: One 75 mg. continuous release tablet dally, swallowed whole, in midmorning, 25 mg.

daily, swallowed whole, in midmonling. 25 tablels: One 25 mg. tablet, three times delicens hour before made, and in midevening desired to overcome night hunger. Use in children under 12 years of age is not record.

MERRELL-NATIONAL LABORATORIES Division of Richardson-Merrelt Inc. Cincinnati, Ohio 45215

Tenuate° (diethylpropion hydrochloride N.F.)

To help control overweight, control appetits



Merrell





She just doesn't respond to things. No interest. No energy. Discouraged.

It may be mild depression. She needs help...and she needs it now. Counsel and reassurance may suffice. But if you decide supportive

medication is indicated, Ritalin can offer prompt benefit.

Ritalin usually begins to act with the very first dose...boosts spirits and brightens mood...helps the patient get moving again. And

Ritalin is generally well tolerated even by older and convalescent patients. However, Ritalin should not be used for severe depression.

When Ritalin works, one prescription may be enough...to help provide an answer to mild de

(methylphenidate) helps the patient respond in mild depression*

Ritailn® hydrochlorids © (mathylphanidate hydrochlorids)

NOICATION

INOICATION

Bosed on e review of this drug by the
National Academy of Sciences-National
Research Council and/or other information
FOA has classified the Indication as follow:
"Possibly" of factive: Mild depression
Finel classification of the less-than-effective
Indications requires further investigation.

CONTRAINBICATIONS

CONTRAINMICATIONS

Morked enxiety, tension, and sgitation, since
Ritalin may aggravate these symptoms. Also an
iroindicated in potients known to be hypersed.
If you is the drug and in patients with general.

WANNINGS

WARNINGS

Ilitalio should not be used in children underly years, since safely and officecy in this age gwo have not hoon established.

Sufficient that non safely and efficecy of long form use at Ritatin in children with minimal brain dysfunction ero not yet evallable. Atthough a causal relationship has not been salabilished, suppression of growth (i.e., weight gain and/or height) lins been reported with long-term use of silmulants in children. Therefore, children requicing long-form thorapy should be careley inconferred.

monitorea. Riinlin should not be used for severe depression of offiner exceptions or endogenous officer to the prevention of normal fallous states. Ritalin may lower the convulsive breshed in pallents with or without prior salzures; with a without prior salzures; with a without prior EEG ebnormallies, aven in ebsen ol selzures. Sale concomilent use of anticomos sents end Ritalin hes not bean established. Il selzures occur, Ritalin should be disconlinud. Use cauliously in patients with hypertension.

Use cauliously in patients with hypertension.

Blood pressure should be monitored at appopriate intorvals in all patients taking Ritelin, aspecially those with hypertension.

Brug Interactions
Ritalin may docrease the hypotensive effects Rilatin may docroase the hypotensive effected guanethidine. Use cauliously with presson agents and MAO Inhibitors. Rilatin may inhibit the metobotism of coumarin enticoagularis, onliconvulsonts (phonoborbitet, diphenyliyestein, printidonet, phonylibutazone, and friggic antidepressants (intipramine, designanine). Downward dosaye adjustments of these drugs many be required when given concemisational Rilatin.

Usago In Prognancy Addition animal reproduction studies is said-ilah sole use of fittalin during pregnacy has not been conducted. Therefore, unit mass information is available, Ritalin should not be prescribed for women of childbearing age units in the opinion of the physician, the potential bonelits outweigh the possible risks.

Ring Rependence
Ritelin should be given carrilously beare
illonally unslabile pallonis, such as mas you
a history of drug dependence or skelvim,
because such pallonis may incess day
on their own initiative.
Chronically should be a part to depend

on their own initiative.
Chronically abusine use can lead be with teleprotence and payone dependence in verying degrees of observable behave, fact they choice episodiae con necur, especially in parentizat of use. Careful supervision is counted during drug withdrawal, since covers dispossible as well as the effects of chronic overactivity can be immerced to the furth habitant dray by required because if the patient's basic personality disjubance.

PRECAUTIONS

Pritical Huns
Patients with an element of aglishen may read
adversally, discontinue therapy if necessary
Periodic COC, ditterential, and pisteleteonis
are advised outling prolonged therapy.

AOVERSE REACTIONS Nervousness and Incomnia are the mosi con Nervousnoss and incompla are the most common adverce reactions but are usually controlled by reducing does go and omitting the drug in the attention of evening, Other reactions include hypersensitivity (including skin rest, utically lover, arthraighs, extotlative darmalitis, sythem multiforms with histopathological findings of mecrolizing vascuitits, and thrombocytopanic purpure); encrexie; neuses; dixzinese; pajoutions; headache; dyskinesie; drowsiness; biod pressure and pulse changes, both up and down lachycardie; angine; cerdisc arthythmis. lachycardie; angine; cerdisc arrhythmis; abdominat pain; weight loss during prolonge therapy. Toxic psychosis has been reported.
Although a definite causel relationship hat not been astabilished, the following have been reported in patients taking this drug; leukopeniand/or anamia; a taw instances of scale having in childran, loss of appelita, abdominal pain, waight loss during prolonged tharpy, lessmall, and tachycerdie may occur more frequently; however, any of the other adverse reactions

DOSAGE AND ADMINISTRATION

Administer orally in divided doses 2 or 3 lim daily, prelarably 30 to 45 minutes before mast.
Dosage will depend upon indication and individ-

ual rasponse.

Average desage is 20 to 30 mg dally, some patients may require 40 to 60 mg dally, in law thers, 10 to 15 mg dally will be adequate. The law patients who are unable to sleep if medication is taken tale in the day should lake the last desa before 6 p.m.

HOW SUPPLIED Tablels, 20 mg (peach, scored); bottles of 100 rabiets, 20 mg (peach, scored); boiltes of rabiets, 10 mg (pale green, scored); boiltes of 10, 100, 500, 1000 and Accu-pak blister units of 10, 7abiets, 5 mg (pale yallow); boilties of 100, 500 rault complete product literatura before

GIBA Pharmaceutical Company Olvision of CIBA-GEIGY Corporation Summit, New Jersey 07901

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Medical Tribune

and Medical News

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Washington and Watergate, Physicians and Patients

TTHERE IS AN OVERLAP in the cost of mental medicine in the interest of our pacharacters who constitute Washington's Watergale and Washington's relationship to physicians and patients. Physicians and patients are uniong the most important constituencies of the national administration, Historically, the Americao physicion has voted Republican hy an overwhelming majority, even in years of Democratic victories. In 1972 the bulk of our patients, who constitute the electorate, voted for the present administration. Among the things which the medical constitueocy and public electorate mandated were not further centralization of power in Washington but a decentralization; not a blgger national intrenucracy but a smaller bureaucracy; nut further political impingement on individual rights but a lessening of governmental intervention; not for greater government control of medicine but a pruper balance hetween government regulation and nongovern-

tients and of science. Among the questions now before the cumntry is: What happened? In what way has the President's constituency been frustrated? The purely political issues are currently subject to multiple investigations and public inquiry. MEDICAL TRINtime has no added enneern, one which is not yet the subject of public inquiry. In what way have Washington and Watergate impinged on or affected the rights of putients and physicians? Menical Trinune believes that all physicians and patients are entitled to assurance us a result of suitable inquiry that the integrity of governmental relationships with medicine was not violated. They have the right to know whether or not the people involved in Watergate or the principals behind this American Imgedy either subverted the physleinn-patient relationship or talated the therapeutic process.

Immortality as a Side Effect of Antihypertensive Drugs The latter is a newly published honk by

THE LAY PRESS, as well as the medicul I profession, is taking an active part in the campaign to coutrol hypertension. A report in Changing Times, the Kiplinger magazine (Junc), appears a mile too en-thusiastic in describing the salutery effects of hypotensive agents. "In a pioneer study," it states, "Dr. Edward Freis und fellow researchers in Veterons Administration hospitals found that anti-hyperteosive drugs given male patients with diastelle pressures 105 or higher lowered the risk of death from one in five to al-

The article in Changing Times, titled "Belter Fiod Out About High Blood Pressure," reflects a current surge of interest in hypertension in the lay press, so that blood pressure must now be running a Are you one of them?" By June 3 the pretty close second to the perennial favorsearched articles bringing news of latest developments on the medical scene. Among these are "America Has High Blood Pressure" (The Floridion), "The Bloody Pressure on 22 Million Americans" (New York Times Magazine), "See Hypertension Affileting High School Kids" (New York Post), and The Silent Disease! Hypertension (Crown).

Lawrence Cinling with an Introduction by hypertenshin rescurcher Dr. Frank A. Finnerty, Jr. It has been endorsed in ndvertising copy by such well-known figures as Dr. Theodore Cooper, director of the National Heart and Lung Institute; Dr. Michael E. DeBakey; end Dr. Edward D. Freis, who headed up the classic VA study that has shown the great benefits of controlling hypertension. With enthusiastic testimonials by these luminarios the publisher first waxed too strong in his promotional copy. On April 29 the New York Times Book Review carried a half-page ad headed "Half of the 24 million Americans who have high blood pressure don't know it-even though it's killing them. ile topic of overweight and diet. The tilles reflect the message of these generally

Americans who have high blood pressure and don't know it aven to killing you." That is not quite the same thing.

Between the extremes of these macabre statistics and immortality, neither quite accurate, lies the truth; and the truth in hypertension does not have to lie to be impressive in either statistics of prevalence R.S.G. or gains in therapy.

The Gynecologist and Today's Women

cal care to changing problems, and those stellicians and Gynecologists; see page 1.)

LINICAL QUOTE: "This generation of who are willing to give pertinent, objecsexually liberated women wants a tive sexual information without moralizageneration of sexually educated gynecoloskin inherits? Risis physicians who ore willing to tune partners in the contract for good emotionin 10 their emotional problems and treos al and physical core." (Dr. Valerie Jorganthem with understanding, those who are all and physical core. (Dr. vallene, at the william vibrate and physical core.)



"My canjecture an all this? We're being recalled for some defect."

Laudamus

Editor, MERICAL TRIBUNE: I am writing to praise Meateal Trata-UNE. I find the color inloy in this journal beautiful, concise, and educative and want to convey how much my resident staff and myself admire this material.

ALBERT HAAS, M.D. Director, Pulmonary Services Role of Stilbesterol New York University Medical Center New York, N.Y.

Feeding the Fetus

Editor, Menical Tainune:

"Pregnancy Is Nutritional Stress" I May 23) is onerringly on target regarding the problem of malnutrition during pregnancy. Being trained in public health, it never ceases to amoze me that dramatic crisis care must often be epplied for lack of common-sense preventive enro.

In a paper I conuthored with Lawrence Cusnzza, M.D., M.P.H., presented at the centennial meeting of the American Publle Health Assuciation, it was illustrated that the most simple monitoring of weight gain, blood pressure, and hemntoerit confil serve to classify 6 parous lowersocioeconomic population into nutritional lilgh-risk and low-risk groups.

We feel that, with the most basic nutritional counseling during the course of pregnancy, the high-risk patient could be moved into the lower-risk group, resultlng in an over-nil improvement in infant mortality and morbidity.

MICHABL H. MOSKOWITZ, M.P.H. New Orleans, La.

Avoiding Amputation

Editor, Medical Tribune: fa reference to your article in MEDICAL TRIBUNE of May 9, entitled "Rising Life Space Add Value to Amputation for schemic Legs," an alternative procedure of physiological and hygicnic measures stated that "while surgical reconstruction larize ischemie tissues represents a brilliant recent accomplishment, the nature of occlusive arterial disease precludes definitive care by surgical means." For the many people who are suffaring from occlusive arterial disease of their lower extremities, little solace and peace of mind is offered

In your suggestion, Intermittent elaudication is an early symptom of such a disorder. In several cases of intermittent claudication with absence of popliteal and pedal pulses, pala and claudication disappeared after the performance of brief, maximal, extensive isometric exercises for six seconda repeated three times, three times a day, which seems to improve perlpheral circulation substantially. This method of isometrics was published by Kiveloff and Huber in the Journal of the American

Geriatrics Society. Further study and ose of this incthod might alleviate the suffering from occlusive arterial disense of the extremities and the necessity for amputn-

> BROING KIVELOFF, M.D. New York, NY.

Editor, MEDICAL TRIBUNE:

I have read the comments of Dr. Roy Hertz on the use of stilbesterol as a postcoital pill (May 16) with some interest. They provide no surprises, since Dr. Hertz has been at the extreme negative end in the argument about estrogens and cancer for the last 25 years.

His enuments are entirely predictable and certainly do not represent the general view of cancer specialists. For the sake of providing e rensuneble balance for your rendors, I strongly urge you to get nnother opinion from an outstanding oncologist, such as Dr. Gernid Mueller at the University of Wisconsin.

I would also suggest that you ask a biostatistician, such as Prof. Alvin Feinstein, what he thinks of the association of stilbesterol pregnnncy with adenocarcinomn of the vaginn in offspring, f think you would find a rather different response than Dr. Hertz's interpretation.

JOSEPH W. GOLDZIEHRO, M.D.

San Antonio, Tex

Drug-Asthma Barrier

Editor, MEDICAL TRIBUNE:

After recently having to halt a brisk tennia game because of an asthma attack, f'm motivated to ask your help in getting the PDA to move faster on new drugs.

For us atopic people, it's very difficult to engage in aports. ff we don't take the ephedriac-aminophylline compounds, the wheezing and inability to sweat curtalls any vigorous exercise. If we do take the medication, we're either exhausted from the stimulatory side effects or we're so might be considered. fn the article, it is jittery we can't concentrate. Then our only alternative is steroids, which seems a little es and to revascu- drastic just to play a tennis game.

For the past two to three years, both Intal (disodium cromoglycate) and albuterol have been available in Europe. The former is a nonsteroldal compound that inhibits SRS (alow-reacting substance) and histamine release. This release in reaction to environmental irritation acems overactive in atopic individuals. Albuterol is a beta atimulant, confined mostly to the beta 1 receptors. That is, the lungs, peripheral blood vessels, and liver are reacted upon without the eardiac, CNS, and lipolytic sido effects. Why are these drugs being withheld?

CHARLES BERWALD, M.D. Rochester, Minn.

Editor's Note: The FDA has just opproved cromolyn sodium, produced by Fisons Corp. as Intal and by Syntex as Aarane.



Teaching Prevention

Are we physicians, "in our well-meaning desire to treat successfully an optimal number of patients, overlooking our overriding responsibility to inform not only our patients hut the general public in matters regarding the prevention of discase?...

"Why should aot we who have this knowledge of the causes of increasing disease rates inaugurate a well-thaught-out program of education for disease prevention. . . . We have the manpower and the resources to do it. . . .

"About 15 years ago, some county medicnI societies presented a few public forums on subjects relating to health. Most of them attracted standing-room-only audiences and were very well received. It would not constitute a burden to any mcdlcal suclety to stuff a continuing program of health-oriented forums open to the public at an cost. . . .

"Even in those communities where only one or two doctors are available, it could still be most helpful to schedule ... [such a] forum . . . every four to eight weeks. . . . " Another advantage is lowering the number of phone calls and night calls "substantially" through a better-informed public. Edgar Woody, Jr., M.D., editorial. (J. Med. Ass. Ga. 62:149, May, 1973.)

Town And Gown

"There are too few investigators able to convey research data to clinical audiences with clarity and effect, However, a broader effort would be possible if our research institutions periodically invited practicing clinicians to visit and examine the work underway. To what disease does it reinte? Why is it significant?

"Researchers need practice in speaking with clinicians about these things" and vice versa.

"This doesn't happen at formal meetings where one speaks and all others listen. It has happened informally in the research departments, based on such 'open-house' invitations to clinicians. . . . A widening gulf between the two activities is dangerous ns our knowledge becomes more speciniized each year.

"Continuing education program credits can be given to clinicians who visit resaarch centers. There are other ways to update knowledge besides taking courses and attending formal meetings. One is to spend time asking questions of an investigator as a plaoned activity scheduled for exactly that purpose. In order to speak to the public and to the government with one voice about our needs, we must first learn to speak among ourselves." J. O'Rourke, M.D., editorial. (Eye Ear Nose Throat Monthly 52:206, June, 1973.)

Reduction of Drugs

By international standards we in Sweden have a relatively small amount of registered pharmaceutical specialties. Despite this, periodic demands are made for a reductioe in the number of drugs. It is mninly the so-called equivalent preparaioos that have come under fire. It is oftnn pointed out that Norwny gets along with fewer preparations than Sweden and has a considerably tighter legislation, making it next to impossible to register equivalent preparations. Be that as it may, Norway has just provided an example of what tack nf equivalent preparations can lead to. Norway has only one digoxin preparation (Burroughs Wellcome and Co.'s Lanoxin); while Sweden has four. Last fall, when several couetries deregistered Lanoxin because of absorbability problems, Norway was forced to retain it or switch to another digitalis glycoside, digitoxin. This has led to great uncertainty in the treatment of heart patients and has presum-

Hormone-Monitoring System Signals Pregnancy Trouble

Medical Tribune Report

New Yoak-A new system that not only monitors the progress af a high-risk prognancy but also nierts the physicians to signs of fetal distress was described here by Dr. Joha C. Hobbias, Assistant Professor of Obstetrics and Gynecology at Yalc Uaiversity School of Medicine. It will prove to be "a valunble tool in the mare objective management of pregnancy," he told a press conference at the New York Academy of Medicine.

The new test, which measures the amount of human chorionic somatomammotropin (HCS) in the serum of pregnant women, was evaluated clinically at Yalc-New Haven Hospital under the direction of Dr. Hobbins, and was developed by Lederle Labaratorics. Called Plac-Gest, the test was described as easy to perform and less expensive than fetal moaitoriag systems now available.

Normally, as gestation progresses, the amount of HCS in the maternal serum iacreases, Dr. Hobbins noted. In cases of fetal distress or a problem pregnancy, there is a plateauing or drop in HCS levels. Tests with the new system are started about the 20th week of pregnaacy and continued monthly.

High-Risk Profile Indicated

"Levels of HCS below 4 micrograms per ml. after 30 weeks of gestation may indicate fetal jeopardy," Dr. Hobbins said. "This result, if found anly on a single determination, is not sufficient by itself to cause alarm but should cominit the patient to a full high-risk profile of other parameters of fetal and pincental well-

Measurements of HCS were observed scriatly, he reported, in 35 pregnant women, including 10 normal and 25 high-

risk women. Rnndom samples were also drawn on members of a second group who were thought to be high-risk: It women had chroaic hypertension or toxemia, 11 showed intrauterine growth returdation (IUGR), and three had postanuturity

In 15 of 18 putients from hoth test groups delivering bubics with IUGR, Dr. Hobbins reported, HCS levels were helow 4 microgrnms/ml. nfter 30 weeks of gestation, and in four of these the IUGR was not predicted by ellnical criteria.

4 Bables Growth-Retarded

In four of the 11 patients with hypertensiaa or toxemin, HCS levels dropped below 4 micrograms/ml. nfter 30 weeks gestation and all four babies were growthretarded at delivery and the pincentas were small, he said.

The three mothers delivering babies with classical postmaturity syndronie had HCS levels between 3.7 and 5.0 micrograms/ml. after 42 weeks.

The HCS levels were high in nine of 11 patients with diabetes and correlated with placeatal size, but not with fetal wellbeing, Dr. Hobbins said. In two patients with dinbetes, the levels were low, corre-Inting with vascular disease.

"Levels of HCS showed a good general correlation with placental size," he said.

The Pine-Gest kit, which can be used to follow nn entire pregnancy consists of six immunodilfusion plates allowing for single determinations of 18 to 28 samples, disposable capillary pipets, and HCS reference standards indicating high, intermediate, and low levels. An antigen-untibody response casts precipitation rings upon the plata, and tha dinneter of the riugs, compared with the HCS standards provided, abows the HCS lovals in tha

Child Malformations Linked With Maternal Alcoholism

Medical Tribune Report

Boston-An association between maternal alcoholism and a pattern of malformation in children born to such mothers was described here by n University of Washington School of Medicine investigator.

Dr. Kenneth Jones reported that the histories of eight unrelated children who exhibited a pattera of craniofacial, limb, and cardiovascular defects, as well as a notable deficiency in growth and development, had only one factor in common-a mother who was a chronic alcoholic.

Four of the children were seen as patients at the cliele run by the Dysmorphology Unit of the Department of Pedintrics, The histories of the four others were found ie clieic records.

Craniofacial defects included microcephaly, short paipebral fissures, epican-thal folds, and maxillary hypnpiasia. Limb defects were abnurmalities of joints and altered palmar crease patterns. Cardiovascular aenmalies consisted primarily nf septal defects.

All Ware Born Small

Dr. Jones and co-workers found that all the children were small at birth and remained below the third percentila for height and weight, "in spite of having a more than adequate caloric intake," he told the annual June conference on genetics and birth defects, which was sponsored by the National Foundation-March of Dimes and Tufts-New England Medical Center.

Past one year of age, their rate of linear growth was 65 per cent of normal and their weight gain was 38 per cent of

Six of the children have been hospital-

where they are receiving un adequate diet and excellent care, Dr. Junes related, but "they are still not catching up in growth."

"Some of these youngsters have sihlings who appear to be partially affected by the mother's drinking and some have alblings who are completely normal," he cnm-

Development performance of the night children ranged from I.Q.a below 50 to the

In taking retrospective histories from the mothers, the Seattle investigators found that "these mothers are all on the young side, averaging 31.8 years in ago and 9.4 years in their drinking habit."

Five of the mothers bave been hospitalized with delirium tremens. Four of them lost weight during the pregnancy in question-15 pounds in one case. Two of them have been treated for cirrhosis.

From the pattern of malformations, Dr. Jones said, "it would appear that the damage to the children occurred during the

Observing that there are no data to the literature concerning the offspring of alcohalic mothers, he reparted that the Dysmorphilogy Unit is embarking on a prospective study of pregnant women in tha Seattle area whe are alcobalics.

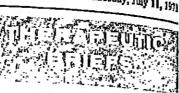
Dr. Jones's coauthors were Dr. David W. Smith, Dr. Christy Ulleland, and Ann Pytkowicz Streissguth, Ph.D.

Society for Sex Education is Organized in Israel

Medical Tribune World Service HAIFA, ISRABL-An Israeli society for sex education has beao set here. It will enably also brought about therapnutic complications. Editorial. (Läkartidningen [J. Swedish M.A.] 70:18, May 2, 1973.)

Six of the children have been nospital courage research into sex education methods of them have been hospitalized six times for this reason.

Six of the children have odd, recommend specific books, organize three of the eight are now in foster homes. In fined persons.



Hepatitis A in Monkeys

ATLANTIC CITY, N.J.-A group of Chicago and Washington investigators has reported the neutralization of human hepatilis Air murmosel monkeys by convalencent ha

The report was presented to the American Society for Clinical Investigation by Dr. A. William Holmes, of Rush-Presby terinn-St. Luke's Medical Center.

This finding, according to Dr. Holms climinates the need for human volunte in most future studies of hepatitis A. I also should lead to complete ideotifice tion of and preventive measures against hepatitis A virusea, he said,

Other investigatars were Drs. Friedich Deinhardt, L. Wolfe, G. Froesner, D. Peterson, and B. Casto, at Rush, and Dr. Marcel E. Conrad at the Walter Res Army Medical Center, Washington,

In 1967 Drs. Deinhardt and Holmes reported the transmission of human hepatitis A to marmoset monkeys, but one laboratory suggested that the hepatilli obscreed in inoculated acimals might have resulted from the activation of a later marmoset virus.

The Intest findings, Dr. Holmes said, prove conclusively that the human hepstitis A viruses, including biochemically and morphologically typical hepatitis, car he transmitted to marmosets.

Aspirin Injections Tried

RGHORN, ITALY-Preliminary clinical results with water-soluble injectable lysise acctylanlicylate show that aspirin gives anulgesic protection in this form over a much wider range than can be obtained with orni preparations, according to Dr. R. Bottiel, of Leghorn Hospital.

He said that the Gm. of lysine acetylsalleylate with 0.1 Gm. glycine was used in 30 patients with various kinds of pain-The desage was equivalent to 0.5 Gm of acetylsalicylic acid per vial. One to four vinls were injected either intramuscularly or intravenously.

The causes of pain included arthrits, migraines, fractures, and rheumalism.

Fourteen patients showed "excellent" results, six "good," five "avorage," two "fuir," and three "nane." There were no side effects, und none of the patients showed any sign of gastritis or hemotrhage nf the digestive liaing.

Dr. Bottlel noted that the rapidity of administration is an important aspect.

"In some cases there was noticeable at tivity within 10 minutes after administration," he sald.

Conuthors were Drs. A. Ferrucci and E. Tnddeucci.

Aspirin Dosage Studied AUCKLANO, NEW ZEALAND-Studies con-

ducted over the past three years by the New Zealand Rheumatism Association have shown that it is safe for arthritis sufferers to take the recommended aspirio dosage of up to 12 tablets a day, under medical supervision.

Dr. Richard A. D. Wigley, of the comevidence was found to suggest that aspiring taken nt this rata causes kidney damage. But he warned that kidney damage could occur in people who took larger than recommended doses of aspirin and other analgesics for prolonged periods.

Dr. Wiglay reported on the committee's findings at the annual meeting of the Royal Australasia College of Physicians in Dunedin, New Zealand.

The rheumntism association, with the backing of the New Zealand Rheumalism Foundation, begao research into the effects of aspirin three years ago after Dr.
Priscilla Kiocaid-Smith of Melbourne. Australia, declared that such analgesic drugs as aspirio, A.P.C., and aspirin-phenacetin-codeline caused kidney disease.

The association was aired that these warnings would make patients reluctant to accept aspirin treatment.

Medical Tribune

HYPERTENSION BULLETIN

ACIBA SERVICE

BP and me 19

JULY 11, 1973

PREPARED BY INTERNATIONAL MEDICAL PRESS



THE BREEDING OF HYPERTENSIVES



CLINICIANS HAVE LONG been aware, from studies of the early, middle and late years of adult life, that hypertension and its complications are frequently familial; that elevated blood pressure is more frequent in the children of hypertensive parents (one or both being so) than in those of nonhypertensive parents. But what about elevated blood pressures in very young children? Until recently, very little has been known about it, but from an ongoing study at Boston City Hospital's Channing Laboratory by Dr. Edward H. Kass of Harvard University Medical continued on page 14

School and Dr. Stephen H. Zinner, Assistant Professor of Medical Sciences at Brown University, these facts have emerged:

 Familial aggregations of high blood pressure are as common in children as they are in adults.

· A so-called "clustering" effect among siblings, at all levels of pressure, can be detected as early as the first year of life.

• There is a definite and measurable longterm blood pressure trend among children, low readings remaining low over the years and high readings persisting.

 It is possible that environmental factors are in part responsible for elevated blood pressure in some children.

One question is, whether children with abnormally high blood pressure are destined to become clinically hypertensive at mid-life, and another, Would early administration of a mild hypotensive drug reverse the tendency?

Pediatricians had long asserted that reliable juvenile blood pressure readings were impossible to obtain; that young children could not be made to relax, were overly apprehensive.

"It seemed like a formidable problem," Dr. Kass said in an interview, "but we soon found that, as with many other things in medicine, a little common sense goes a long way,"

Mother came first

He and Dr. Zinner took the blood pressure readings related to their study in the home. The familiar setting helped tremendously, he said, to reduce the child's anxiety; and to allay all fears, the mother's pressure was taken first, then that of the eldest child, down to the youngest.

"It worked like a charm. No problems whatever. We did three readings on each child, and they were consistent."

Cuff sizes recommended by the American Heart Association were used, and all

data were gathered by a single observer, using a newly developed portable blood pressure recorder that minimizes observer variation and subjective error.

The instrument was developed by Dr. Kass in collaboration with Professor E. Mollo-Christensen of the Massachusetts

Familial aggregations of high blood pressure are as common in children as they are in adults.

Institute of Technology. It records on tape the Korotkov sounds through a microphone, along with a simultaneous calibra-

tion scale, and the tape can be played back.
The instrument is a modified mercury sphygmomanometer, wired at five-millimeter intervals to produce the calibration scale. As the mercury falls, contact with these electrodes activates an oscillator, which generates a high-pitched signal at alternate millimeter intervals. Blood pressure is taken in the usual manner. When the tape is played back through a singlechannel recorder, such as an electrocardiograph, it produces a visual read-out.

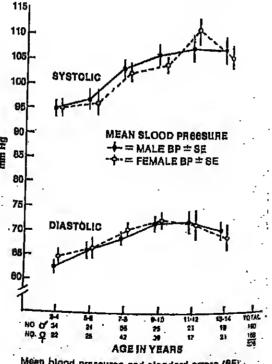
Two studies were carried out by Kass, Zinner and their associates over a 7-year period. In the initial one, 325 children aged 2 to 14, and 82 mothers, were studied. Blood pressures were expressed in standard deviation units (SDU), where SDU equals observed recorded pressures minus mean pressure for age and sex group, divided by blood pressures in that age and sex group. When adjusted for age and sex, children whose SDUs were found to be positive ran pressures higher than the mean, while those with negative pressures ran below the mean. The results showed the tendency of blood pressures to cluster in families at all levels of pressure. Tests of blood pressure values in the

vealed a similar correlation. In short, dear evidence of familial aggregation.

"The data of that first study, confirmed in our 4-year follow-up, reveal, in terms of familial blood pressure aggregation, that children—even those as young as two years and on up to 14-are no different from adults. Our findings parallel adult measurements made by the British investigator, W. E. Miall, during the past 15 years.

"To put it another way, mothers with high, low, or so-called normal range blood pressure tend to have children with high, low or normal range pressure, and these tendencies towards aggregate blood pressure values are developed at a very early age."

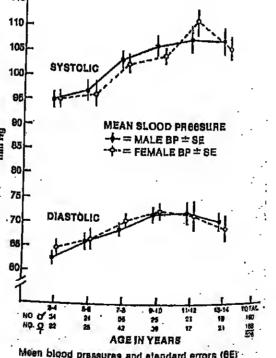
The tendency of children to retain their same blood pressure status as they grow older was fully confirmed by the results of



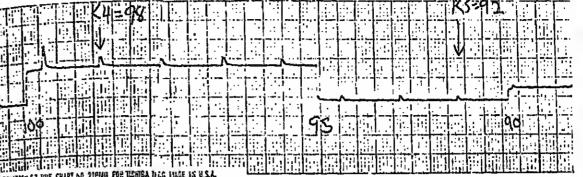
Meen blood pressures and elendard errors (6E) plotted egainst ega in two-year groups for boys and girls. A slight aleady rise with ega is each

mothers against those of their children re-

"Getting on track"



for both syclolic and dissibile pressures,



the second Kass-Zinner study. And, said Dr. Kass, two things are very clear.

"First, sib-sib variances are significantly less than random variances, which confirms a preliminary finding in the initial study, specifically, that the familial aggregation phenomenon in children is now well established. Secondly, those children in the earlier study who had a positive standard deviation score [80 per cent] remained in that range four years later. Correspondingly, those with negative scores also retained negative scores. We call this 'getting on track'. Once on track, the indication is that you stay on it for the rest of your

The children in 15 of the families studied had pressure readings that put them on hypertensive track (2 or more positive SDU). This raises two questions of clinical importance: Are these, or some of these, children destined to become clinically hypertensive in their middle or late years? Would early administration of mild antihypertensive medication reverse this tendency? Dr. Kass comments:

"Only detailed prospective epidemiologic studies can answer these questions. At least we can say that there is a possibility that familial factors are responsible for essential hypertension. As for early

The trends are definite, lows remaining low over the years, and high readings persisting.

medication, at this point we just don't know, we have no data. I would not, however, be opposed to someone's trying to find out whether, by appropriate use of one of the milder, and hence safer, antihypertensive drugs, such children could be taken off the hypertensive track. It might be a reasonable thing to do. The trouble is, Martin and Frank Sachs.

you wouldn't get an answer for years."

The Kass-Zinner investigation raises again a fundamental question about the etiology of hypertension: Is a predisposition to the disease genetic or environmen-

"The classical view, of course, is that high blood pressure, leading in many instances to hypertension, is the result of a dominant gene effect. A certain amount of data has been accumulated to support this view. Some very able people subscribe to it.

Genes vs. environment

"Although at this time we don't have enough data to reject the gene theory out of hand, I lean toward the environmental explanation. I am very much influenced by the work of Sir George Pickering and Dr. Miall, who demonstrated that the blood pressure of first-order relatives was unimodally distributed.

"If there were a dominant gene effect, one would have expected first-order relatives of hypertensive individuals to show up bimodally. They did not, suggesting that an environmental factor, not a dominant gene, is the important thing.

"Our data were, in the main, obtained from a low socioeconomic group, typical of a large municipal hospital, and though no attempt was made to identify environmental or genetic factors, I think there is a certain amount of evidence to suggest that there may be some socioeconomic structuring to blood pressure, that environmental influences exert their effects early.

"There certainly is strong evidence that people in different occupations have different blood pressures. We all know that blacks have higher blood pressure than whites. Whether this is due to genetic or environmental factors is not yet known."

Participating in the study were Mrs. Olga Ulchak, R.N., Bernard Rosner, Ph.D. (statistician), and medical students Louis

100 ml, proteinuria 0.5 g/24 hours; in fundi but no hemorrhage; pink normal urine culture and vanillyl optic discs with indistinct margins; mandelic acid excretion; intrave- papilledema, confirmed by fluores-

12.5 cm; right, 11.5 cm. twin, who had also been troubled proteinuria 1.4 g/24 hours; normal by intermittent hematospermia but was otherwise asymptomatic, re- acid excretion; kidneys somewhat vealed: blood pressure 220/160 contracted—left renal size, 11.3 mm. Hg; presence of hard exudates cm; right, 10.8 cm.

nous pyelogram: left renal size, cein angiography; left ventricular 12.5 cm; right, 11.5 cm. hypertrophy on chest x-ray and Examination of his identical ECG; blood urea 48 mg/100 ml, urine culture and vanillyl mandelic

reports abroad



Heidelberg, Victoria, Australia-An association between severe hypertension and rheumatoid factor has been observed by Drs. A. Ebringer and A. E. Doyle of the University of Melbourne Austin Hospital. The rheumatoid factor detected by them by means of the latex fixation test in patients with hypertension "appears after the onset of vascular injury" and may result from the vascular damage induced by the hypertension.

They found the rheumatoid factor in 14 (48%) of 29 severely hypertensive patients, but in only 6 (18%) of 33 healthy normotensive blood donors—all 40 to 60 years of age. None of the patients had rheumatoid arthritis or any other chronic-tissue-damage disorder associated with increased rheumatoid factor. Though the incidence of this factor generally increases with age, the investigators consider it "unlikely that increased incidence of theumatoid factor in hypertensive patients is due to age alone."



GLASGOW—Plasma concentrations of renin, renin substrate, angiotensin II, and aldosterone were significantly lower in the peripheral venous blood of women with hypertension and proteinuria in late pregnancy than in a control group of normal pregnant women matched for age, parity, time of gestation, and posture.

This report came from a group headed by Dr. Ronald J. Weis at the Medical Research Council Blood-Pressure Unit, Western Reserve Infirmary, and the Departments of Obstetrics, Queen Mother's Hospital, Royal Maternity Hospital, and Stobhill General Hospital.

The investigators concluded that the pathogenesis of hypertension during pregnancy cannot be ascribed to circulating levels of renin, renin substrate, angiotensin II, and aldosterone. The "suppression" of the renin-angiotensin-aldosterone system in hypertension in pregnancy may be the result, they said, of an adjustment to a raised circulating level of some unidentified pressor agent or mineralocorticoid.

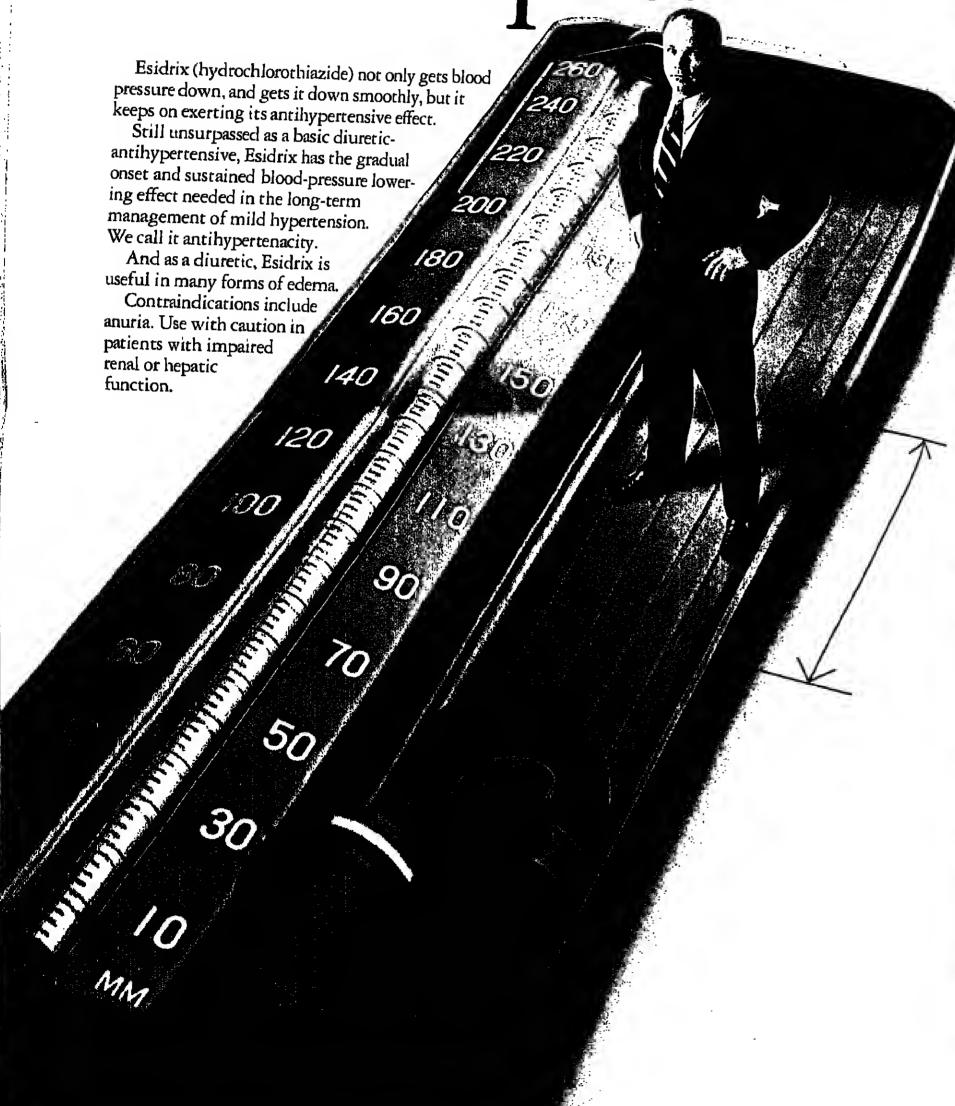
C IMULTANEOUS ONSET of malignant hypertension in identical twins FAMILIAL "is an unusual manifestation of concordance of blood pressure... DOUBLE and underlines the role of heredity in essential hypertension". But TROUBLE what the mode of inheritance may be, added Drs. P. J. Lewis, D. F. J. Archer, and A. Breckenridge, of Hammersmith Hospital, London, remains controversial.

When they found malignant hypertension-240/160 mm. Hg-in their 29-year-old patient, his sole complaint had been hematospermia, intermittent over a three-year period. Findings after hospital admission included: papilledema, linear hemorrhages and several cotton wool spots in fundi; left ventricular hypertrophy on chest x-ray and ECG; blood urea 48 mg/



Lell-jundus of the first twin exemined, showing at leneive leekage of fluorescein englogram dye. Right-second lwin, dye leek from diec vessels.

Keeping the mild hypertensive in his place



"Antihypertenacity" Esidrix has it (hydrochlorothiazide)

(hydrochtorothiezide)

Based on a review of this drug by the National Academy of Sciences-National Research Council and/or other information, FDA has classified the indications as follows:

Hypartension: in the management of hypertension either as the sole therapeutic agent or to enhance the effect of other antthypertensive drugs in the more severe forms of hypertension, and in the control of hypertension of pregnancy.

Edeme: As adjunctive therapy in edema associated with congestive heart failure, hepatic cirrhosis, end corticosteroid and estrogen therapy.

Esidrix has also been found useful in edema due to various lorms of renal dysfunction, such as the nephrotic syndrome, acute glomerulonephritis, and chronic renal failure.

In severe edema when due to pregnancy.

"Probably" Effective
Toxemia of pregnancy (eclampsie), engine due to
congestive heart failure and/or hypertension, end "drug Induced" edoma.

Finel classification of the less-than-effective indications requires further invostigation.

CONTRAINDICATIONS

Anurta; hypersensttlylty to this or other sultonamide derived drugs. The routine use of diuretics in an otherwise healthy prognant woman with or without mild edoma is contraindicated and possibly hazardous. WARNINGS

Use with cautton in severe renal disease. In patients with renal disease, thiazides may precipitate azotemia. Cumulative effects of the drug may develop in patients

with impatrad renal function Thiazides should be used with caution in patients with impatred hepatic function or progressive liver disease, since minor atterations of fluid and electrolyte imbalance may precipitate hepatic coma

Thtazides may be additive or potentiative of the action of other antihypertensive druga. Potentiation occurs with gangilonic or peripheral adrenergic blocking

Sensilivity reactions may occur in patients with a history of allergy or bronchial asthme. The possibility of exacerbation or activation of systemic tupus erythematosus has been reported.

Usage in Pregnency
Usage of thiaztdes in women of childbearing age requires that the potential benefits of the drug be
welghed against its possible hazards to the fetus. These hazards include fetal or neonatal jaundice, thrombocytopenia, and possibly other adverse reactions which have occurred in the adult.

Nursing Mothers cord blood and breast milk.

PRECAUTIONS Periodic determination of serum alectrolytes to detect possible electrolyte imbatance should be performed at appropriate intervals. All patients recaiving thiszide therapy shoutd be observed for clinical signs of fluid or alectrolyte imbalance: namely, hyponatremia, hypochloremic alkalosis, and hypokalemia. Serum and urine electrolyta determinations are perticularly important when the patient is vomiting excessively or receiving parenteral fluids. Medication auch as digitalis may also

Influence serum electrolytes. Warning signs are dryness of mouth, thirst, weakness, lethargy, drowsiness, restiessness, muscle pains or cramps, musculer latigue, hypotension, oilgurla, tachycardia, and gastro-intestinal disturbence such as nausea or vomiting. Hypokalemia may develop with thiazides as with any other potent diuretic, especially during brisk diuresis, when severe cirrhosis is present, or during concomitant administration of steroids or ACTH.

Interference with adequate oral Intake of electrolytes will also contribute to hypokalemia. Olgitalis therapy mey exaggerate metabolic effects of hypokalemia es-pecially with raference to myocardial activity.

Any chloride deficit is generally mild and usually does not require specific treatment except under extraordinary circumstances (es in liver disasse or renai disease). Ditutional hyponatremia may occur in edematous patients in hot weather; appropriate therapy is water restriction, rather than administration of salt except in rare Instances when the hyponatremials life-threetening. in actual satt depletion, appropriate replacement

is the therapy of choice. Transient elevations in plasma calcium may occur in patienta receiving thiazides. This may be more pronounced or susteined in patients with hyperparathyroldism. Pethological changes in the parathyroid gland have been reported in a few petients on prolonged thiazide therapy.

Hyperuricemie mey occur or frank gout may be precipitated in certain patients receiving thiszide therapy. Insulin requirements in diabatic patients mey be increased, decreased, or unchanged. Latent diabetes may become manifest during thiazide administration. Thiazide drugs may increase the responsiveness to

The antihypertensive effects of the drug may be enhanced in the postsympathectomy patient. Thiazides may decrease arterial responsiveness to nor-epinephrine. This diminution is not sufficient to preclude effectiveness of the pressor agent for therapeutic

tf progressive renal impairment becomes evident, as indicated by a rising non-protein nitrogen or blood urea nitrogen, a cereful reappraisal of therapy is necessary with consideration given to withholding or discontinuing diuretic therapy.

Thiazides may decrease serum PBI levels without signs of thyrold disjurbance.

ADVERSE REACTIONS Appende Action (Sastroin Indiana): Anorexia, gastric Irritation, nausea, vomiting, cramping, diarrhea, constipation, jaundice (Intrahepetic cholestatic), pancreatitis Central Narvous System: Dizziness, vartigo, paresthe-

slas, headache, xanthopsla Dermetologic-Hypersensitivity: Purpura, photosensitivity, rash, urticaria, necrotizing anglitis, Stevens-Johnson syndrome, and other hypersensitivity reactions

Hematologic: Leukopenie, agranulocytosis, thrombocytopenia, aplastic anemia
Cardiovascular: Orthostatic hypotension may occur
and may be potentiated by aicohol, barbiturales, or

Othar: Hypargtycemia, glycosuria, hyperuricemia, muscle spasm, weakness, restlessness.

Whenever adverse reactions are moderate or severe, thlazida dosage shoutd be reduced or therapy with-

DOSAGE AND ADMINISTRATION
Therapy should be individualized according to pattent response. Dosage should be litrated to gein maximal therapeutic response as well as the minimal dose possible to maintain that therapeutic response.

Hypertension To initiate Therapy: Usual dose is 75 mg daily. May be given as a single dose every morning.

Maintenance: After a week dosage may be adjusted downward to as tittle as 25 mg a day, or upward to as much as 100 mg daily.

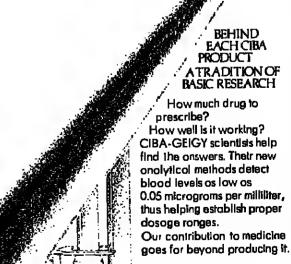
Combined Therapy: When necessary, other anlihypertensive agents may be added cautiously. Since this drug potentiates the antihypertensive effect of other agents, such edditions should be gradual. Dosages of gang lionic blockers in particular should be halved initially.

Edema
To initiate Diuresis: 25 to 200 mg daily for several days, or until dry weight is attained.

Maintenance: 25 to 100 mg daily or intermittently depending on patient's response. A few refractory patients may require up to 200 mg daily.

Tablets, 50 mg (yellow, scored) and 25 mg (pink, scored); bottles of 100, 1000, 5000 and Strip Dispensers of 100. Rev. 9/72

CiBA Pharmaceutical Company Division of CtBA-GEIGY Corporation Summit, New Jarsey 07901



CIBA

HYPERTENSION CLASSICS

-Korotkov's auscultatory method

EGENO HAS IT that Nikolai Sergeyevich Korotkov first heard the sounds which now bear his name in the auscultatory method of blood pressure determination while he was serving as first senior physician in a division of the Czar's army on the Siberian front during the Russo-Japanese War of 1904-05. He is said to have detected the sounds in aneurysmatic vessels.

That may be. Little is known of Korotkov. He was born in 1874, took his degree at the University of Moscow in 1898, was at the Moscow clinic of Prof. C. P. Fedorov when he presented his Contribution to the Problem of Methods for the Determination of Blood Pressure to the Imperial Military Medical Academy, St. Petersburg, in 1905, and died of pulmonary tuberculosis on March 14, 1920, nearly two decades before the American Heart Association and the Cardiac Society of Great Britain duced by the completely compressed artery gave his method their official recognition. Dr. Arthur Ruskin, in Classics in Arterial Hypertension (1956), says of Korotkov: ...a sort of scientific meteor."

Bright streak he was; but many of the physicians who heard his paper in 1905 might rather have described him as hallu-

He stated that he had come to the con- cuff with a stethoscope. clusion that normally no sound is pro-



and proposed an auditory method of determining the blood pressure:

"Riva-Rocci's cuff is placed over the method." middle third of the upper arm and the pressure in the cuff quickly raised to occury in the manoineter is allowed to fall

"With the fall of the mercury in the passed by unnoticed."

manometer, down to a certain height, the first short tones appear; their appearance indicates the passage of part of the pulse wave under the cuff."

He noted that, with further fall of the mercury, finally all sounds disappear and that "the manometric figure at this time corresponds to the minimal blood pressure." For the first time, a noninvasive method of determining the diastolic pressure had been described. But there were dissenting voices:

B. G. Bozhovsky: "The mechanism of the formation of murmurs is understood and does not require special explanations, but I cannot agree with you at all about the local development of the sounds."

I. A. Shapovalenko: "In your experiment one cannot explain the origin of the second sound by the opening of the vessel, because the blood flow is uninterrupted at this time. It seems to me impossible to determine the minimal pressure by your

However, it was not entirely so. Prof. M. V. Yanovsky said: "I must say that in clude circulation below the cuff. The mer- your investigations you have shown marked talent and ingenuity. You easily while listening to the artery just below the grasped that fact which many investigators concerned with this question have

New Orleans:



Lesson in BP surveying

TN THE LARGEST HYPERTENSION SCREENING project ever, the blood pressures of some 30,000 persons 19 years of age or older were checked in New Orleans in two

Thirty per cent (9,038 persons) had elevated readings and were referred to their physicians for further evaluation. In an earlier study of high blood pressure in the black population in New Orleans, 36 per cent of 11,000 persons screened were found to have elevated readings.

Data being processed will break down those referred by age, sex, race and school district tested, and will show whether the referral was based on a high systolic (160 mm. Hg or above) or a high diastolic (90 mm. Hgorabove) pressure, or both.

The blood pressure readings were taken by approximately 900 volunteers, according to Dr. Stanley Garbus, Louisiana State University Department of Medicine, chairman of the screening committee.

Included were some 400-500 medical students and 200-300 nursing students from Tulane and LSU, working nurses, a smallnumber of physicians, policemen and firemen from rescue squads, and a few military medical corpsmen, of whom some were trained specifically for the screening.

Dr. Garbus believes the blood pressures taken were well controlled for accuracy but conceded "room for variation" in such a large study, noting that in trial runs readings of the same pressure by physicians and professors of medicine varied as much as 10-15 per cent.

Volunteers work in shifts

Dr. James Reynolds, president of the Louisiana Heart Association, which sponsored the screening jointly with CIBA Pharmaceutical Company, said the readings were often, but not always, doublechecked by the most experienced person on hand.

The volunteers operated in teams that worked four-hour shifts at 43 public and parochial senior high schools. The Communicable Disease Center in Atlanta supplied some of the cuffs and stethoscopes that were borrowed. Clerical assistance came from other volunteers.

The percentage of persons found to have elevated blood pressures varied from about 18 per cent at some schools to as high as about 45 per cent at others, Dr. Garbus said. Data from the screening will be compared with the New Orleans census data of 1970 for racial and other socio-economic correlations.

It is expected, Dr. Reynolds said, that predominantly black neighborhoods will show the highest percentage of referrals. New Orleans' population is approximately equal parts black and white.

The first step of the screening, as Dr. Reynolds and Dr. Garbus described the

City even calls out the National Guard in a study of how to conduct massive hypertension screening.

logistics, was to get the endorsements of the local medical societies. A full-time coordinator was hired. Letters alerted every doctor in the area to a possible influx of patients from the screening. The publicity

started three weeks before the screening weekend and centered on the schools, daily newspapers and radio and TV stations. National Guard volunteers offered security at each testing site. Back-up volunteers and equipment were dispatched by amateur radio operators.

Follow-up under way

Each person tested was asked whether he was awate of having high blood pressure and whether he was being treated for it. For those with elevated pressures who had no private doctor, there was a list of physicians (supplied by the medical societies), and a list of health clinics, and a form (stamped envelope attached) for the physician rechecking the pressure.

What remains to be seen, Dr. Reynolds said, is how many of those who were referred will go to doctors, how many of these will carry their forms, and how many forms will be returned by doctors.

The effort to gather support for this follow-up is under way, Dr. Garbus said, calling it a "medical and moral" responsibility.

Dr. Garbus said there are preliminary plans to screen a minimum of 10 per cent of Louisiana's population, 3-400,000 persons, including all the major cities at least once and maybe twice, and some smaller communities. A screening in Baton Rouge is planned for the fall, and a second screening in New Orleans for October, 1974.

"We would like to complete the screenings by the end of 1975 and compile enough data by the end of 1976 to be able to offer suggestions to our own state health departments and to the federal health authorities about how to conduct a hypertension screening."

More than 100,000 persons across the country have been screened for high blood pressure to date by Community Hypertension Evaluation Clinics (CHEC) and 28 per cent have been referred.

may be reading: Your patient

HEN THE IRRITATION and annoyance of repeated explanations to hypertenrepeated explanations to hyperten-tacks. sive patients sends the physician's own blood pressure up, he may find some in- hypertensive drugs is outlined before formation for his patient—with accom- Galton reaches the chapter which will panying relief for himself—in a new book by Lawrence Galton, "The Silent Disease: Hypertension," Crown Publishers, \$5.95.

As a medical writer for The New York Times and various magazines, Galton's initial interest in hypertension was professional, but became personal when he was told he was a labile hypertensive.

His doctors-and he was sure he had good ones, he says—"pooh-poohed" for years his occasionally elevated pressures, telling him they would drop. They didn't. His systolic pressure was stabilized be- mal levels and keep it there." tween 155 and 160 mm. Hg, and his diastolic at over 100 mm. Hg. Galton's of uncomplicated essential hypertension, pressure and he became convinced, he says, of the need for a book to "tell the whole story of hypertension and why it is serious and the problems involved in treating it."

ter heading of "What Is It? What Does It few weeks to a month, it should be clear Do? How?", Galton details the damage whether a diuretic alone will suffice.

The history of the development of antiprobably draw the immediate interest of the patient who learns that he is a hyper-lucky, the author cletails the side effects of tensive: "Arriving at the Right Treatment for You".

"The aim of treatment is to bring down the blood pressure to normal or near-nor-

A hypertension primer for the inquisitive patient answers What is it? How?

Galton says, "Many physicians often find it advisable to begin with a thiazide diuretic. Through its effect on the excretion of salt and excess fluid..., such an agent may bring pressure down to normal levels. In explaining the basics under the chap- or in a larger dose once a day. Within a It may be used in smaller doses twice a day

then try a smaller close, seeking to establish the minimum necessary to keep your blood pressure down."

Galton's own blood pressure was controlled quite easily, he says, and without side effects. Recognizing that all are not 50 reserpine, hydralazine, alpha methyldopa and guanethidine.

Having done that, Galton continues with arguments for drug treatment that will probably echo what many physicians are telling their patients, especially those with moderate hypertension.

"The fact is that the most striking gains in patients with moderate and severe elevations given effective antihypertensive drug treatment have been in the prevention of strokes and congestive heart failure. There is still room for further improvement..., certain to come as drug treatment now is applied increasingly to milder elevations... further minimizing the risks of complications...."

It is a repetitious book. But it may be argued that repetition is a learning technique. And there is plenty to be learned. The patient who reads it before he sees his relates hypertension to strokes and ather- levels with a diuretic, your physician may possibility of coarctation of the aorta.

Dr. Sol Sherry, 56, is Professor of rather than above the waist." He Medicine and chairman of the department, Temple University School of Medicine, Philadelphia, and director of its Specialized Cenby which I mean it's less than 150 over less than 90. That second figure is a lot more significant, of course."

He never takes his pressure himself, and never has it taken by anyone else unless he's sick, but he's very rarely sick. He describes himself as a "bad patient" so far as his blood pressure is concerned.

Dr. Sherry is five feet nine and a half inches tall, weighs 174 pounds, and is mildly concerned about a small obesity problem that manifests as a minimal paunch "below

has never smoked cigarettes but started smoking a pipe when he was 18, and says that he smokes a lot. His family blood pressure hister for Thrombosis Research. He tory is negative. During one recent says: "Myblood pressure is normal, afternoon, he moved frequently and easily about his office, going from desk to slide cabinet, back to his desk, hunting for a book in the bookcase, to his outer office in search of a picture. He turned down mid-afternoon coffee in favor of tea and refused a slice of birthday cake.

He does not deliberately relax during the day to keep his blood pressure down. "I go all day, and take a drink when I get home. When I work in the evening, I work in a quiet place, without pressure, and that makes life bearable."

Life without tension

AN EXPEDITION FROM BOSTON that went to and that "a rise in cholesterol level and an A the ends of the earth to gather ethnographic, anthropometric, genetic and medical data found that tribal peoples living as primitive slash-and-burn cultivators and fishermen on islands in the South Pacific appear to be completely free of the hypertension and coronary vascular diseases that are now endemic in societies of mechanized man.

The investigators, led by Drs. Lot B. Page, Professor of Medicine, Tufts University School of Medicine, and Robert Moellering of Massachusetts General Hospital, and anthropologist Albert Damon, M.D., Ph.D., of Harvard, studied six Solomon islands tribes, three on Bougainville and three on Malaita, over a period of four years. Three of the group are partially acculturated, three are considered unacculturated, having minimal contact with peoples from Western cultures. Some of the tribes rarely use salt, some use it regularly.

BP vise with age, abnormal

A force of 12, sent off by the Peabody Museum and Department of Anthropology, Harvard, studied 2,586 men, women and children among the six tribes. Medical studies, which emphasized cardiovascular epidemiology, included physical, ophthalmologic and dental examinations, serum cholesterol, blood urea nitrogen, chest films, ECGs and blood pressure readings. What Western societies have regarded as a normal part of aging is possibly a disease process—leading to essential hypertension-the investigators suggest; and add that "the failure of blood pressure to rise with age is normal in human beings,"

age-related rise in blood pressure" are attributable to an acculturated way of life. Of the three tribes on Bougainville:

The Nasioi have had continuous contact with European culture for 85 years, particularly since 1966, when extensive copper mining within the tribal area began. The primary economy since World War II consists of settled agriculture with cash-crop cultivation. Staple food is kumara (a sweet potato), bananas and other fruits. Though

Boston investigators find tribal peoples completely free of hypertension and cardiovascular diseases.

pigs and chickens are raised, they are eaten only on festive occasions. Tinned meat and fish, rice and bread are purchased. Salt is used regularly.

The Nagovisi have had fairly intense contact with Western culture for 30 years. They are settled agriculturalists and are moving rapidly into a cash economy. Diet is similar to that of the Nasioi. Affected by the influx of Europeans, most consume some kind of European food at least every other day. Salt is used regularly.

The Aita tribe practiced cannibalism until at least the late 1950s, but since the mid-1960s they have had sudden and moderately intense exposure to Western influences. Some have become wage earners. Diet consists mainly of taro plus sweet potato and greens. They do not raise

 On Malaita Island, not occupied during World War II:

The Kwaio are the least acculturated. having had very slight contact with Europeans. They live in scattered hamlets and practice swidden (slash-and-burn) agriculture, moving from year to year. Diet consists primarily (85 per cent) of kumata, some leafy vegetables, insects, grubs and fresh water prawns. Pigs are kept, but are eaten only on ceremonial occasions and mainly by the men. Salt is rarely used.

The Baegn are similar in many ways to the Kwaio, but with somewhat greater Western influence. They are swidden farmers of taro and kumara, but are beginning to change to settled agricultural patterns. Diet includes salt and salty items only occasionally. Fish and meat form five to 10 per cent of diet.

The I are population density is great. They are fishermen, and diet includes copious amounts of sall water in cooking vegetables. From trading vessels they frequently obtain Western goods and foods.

Arteriular changes absent

In general, these Solomon islanders are well nourished and in robust health. Clinical coronary clisease and atherosclerosis are very rare. Retinal examination shows "a striking absence of arteriolar changes even in the elderly."

Though "hypertension has a low prevalence in the Solomon Islands," and no agerelated rise in blood pressure was found in unacculturated groups, an age-related rise in pressure was observed in the acculturated groups, earlier in females than in ınales,

No age-related elevation of cholesterol

was apparent, but levels were higher in acculturated than in unacculturated groups. A "definite and somewhat puzzling pattern" of uric acid values in relation to cholesterol was seen. Other investigators have shown that these values parallel each

other as acculturation proceeds. The Boston group found, however, in all six of the tribes, an inverse relationship, i.e., high turic acid levels in the least acculturated, lower levels in the more acculturated.

Attempting to link specific factors with the trends they observed, the investigators note that "the most constant feature of the acculturating Solomon islanders is dietary change, and especially a marked increase in the use of salt and salty foods."



MAURITANIA

The drought has hit what is known as the Sahelian zone

of West Africa. Salielina is the term applied to a broad

belt of add land extending some 3,000 Km. along the

south of the Sahara and shared by ail six nations.

in tankers and distributed.

6 Nations in West Africa Battling Against Drought

MEDICAL TRIBUNE

NIGER

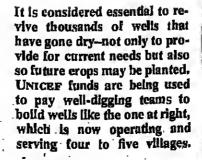
THE WEST AFRICAN COUNTRIES of Mauritania, Senegal, Mali, Upper Volta, Niger, and Chad are in their fifth year of drought. Of the 30,000,000 people in the six countries, "about one-third are now weakened by hunger and malnutrition and some people are dying," according to a Food and Agriculture Organization (FAO) official. The World Food Program, sponsored jointly by the FAO and the United Nations and UNICEF, is airlifting food, medical supplies, seeds for crop planting (many of the existing supplies of seeds have been catea), and equipment to deepen existing wells to the stricken countries.

> The leaders of the six nations are planning to meet in August in Ouagadougou, the capital of Upper Volta, to try and find ways for the region to make best use of the relatively small and uncertain water supplies and agricultural possibilities on a long-range basis.



It has been estbuated that as mony as 2,000,000 head of cattle might perish as a result of the drought. Food distribution like that taking place in the photo at left has become an urgent necessity. According to officials, many familles are limited to one meal every two days. In some rural arens 90 per cent of the people are short of food. UNICEF is supplying a high-protein food mixture of corn, soybean, and powdered milk enriched with proteins and vitamins known as CSM, whileh has been used effectively in previous emergency campaigns for feeding children.









If there's good reason to prescribe for psychic tension...



When, for example, reassurance and counseling on repeated visits are not enough.

Effectiveness is a good reason to consider Valium (diazepam)

After you've decided that the tense, anxious patient can benefit from antianxiety medication, the question remains: which one?

Valium is one to consider closely. One that can help to relieve the psychic tension and anxiety. One that can minimize the patient's overreaction to stress. One that is useful when somatic complaints accompany tension and anxiety. In short, one that can work and work well to help bring the patient's symptoms under control.

Effectiveness. One good reason to consider Valium.

And should you choose to prescribe Valium, you should also keep this information in mind. It is usually well tolerated; side effects most commonly reported have been drowsiness, fatigue and ataxia. Patients taking Valium should be cautioned against operating dangerous machinery or driving.

Please turn page for a summary of product information.

Valium[®] (diazepam)
2-mg, 5-mg, 10-mg tablets



Dependable response

The psychotherapeutic effect of Valium (diazepam), characterized by symptomatic relief of tension and anxiety, is generally reliable and predictable.

Before prescribing, please consult

of which follows: Indications: Tension and anxiety states; somatic complaints which are concomitants of emotional factors; psychoneurotic states manifested by tension, anxiety, apprehension, fatigue, depressive symptoms or agitation; symptomatic relief of acute agitation, tremor, delirium tremens and hallucinosis due to acute alcohol withdrawal; adjunctively in skeletal muscle spasm due to reflex spasm to local pathology, spasticity caused by upper motor neuron disorders, athetosis, stiff-man syndrome, convulsive disorders (not for sole therapy).

complete product information, a summary

Contraindleated: Known hypersensitivity to the drug. Children under 6 months of age. Acute narrow angle glaucoma; may be used in patients with open angle glattcoma who are receiving appropriate therapy.

Warnings: Not of value in psychotic patients. Caution against hazardous occupations requiring complete mental alertness. When used adjunctively in convulsive disorders, possibility of increase in frequency and/or severity of grand mal seizures may require increased dosage of standard anticonvulsant medication; abrupt withdrawal may be associated with temporary increase in frequency and/or

Prompt action

Significant improvement usually becomes apparent during the first few days of Valium therapy. Some patients may, however, require more time to establish a clear-cut response.

severity of selzures. Advise against simultaneous ingestion of alcohol and other CNS depressants. Withdrawal symptoms (similar to those with barblturates and alcohol) have occurred following abrupt discontinuance (convulsions, tremor, abdominal and muscle cramps, vomiting and sweating). Keep addiction-pronc individuals under careful surveillance because of their predisposition to habituation and dependence. In pregnancy, lactation or women of childbearing age, weigh potential benefit against possible hazard.

Precautions: If combined with other psychotropics or anticonvulsants, consider carefully pharmacology of agents employed; drugs such as phenothiazines, narcotics, barbiturates, MAO inhibitors and other antidepressants may potentiate its action. Usual precautions indicated in patients severely depressed, or with latent depression, or with suicidal tendencies, Observe usual precautions in impaired renal or hepatic function. Limit dosage to smallest effective amount in elderly and debilitated to preclude ataxia or oversedation.

Side Effects: Drowsiness, confusion, diplopia, hypotenslon, changes in libido, nausea, fatigue, depression, dysarthria, jaundlee, skin rash, ataxia, constipation, headache, incontinence, changes in

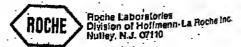
Titratable dosage

With Valium, small adjustments in dosage can significantly alter the clinical response. This titratability enables you to tailor your therapy for maximum efficiency. There are three convenient tablet strengths to choose from: 2 mg, 5 mg and 10 mg.

sulivation, slurred speech, tremor, vertigo, urinary retention, blurred vision. Paradoxical reactions such as acute hyperexcited states, unxiety, hallucinations, increased muscle spasticity, insomnia, rage, sleep disturbances, stimulation have been reported; should these occur, discontinue drug. Isolated reports of neutropenia, jaundice; periodic blood counts and liver function tests advisable during long-term

Dosage: Individualize for maximum beneficial effect. Adults: Tension, anxiely and psychoncurotic states, 2 to 10 mg b.i.d. to q.i.d.; alcoholism, 10 mg t.i.d. or q.i.d. in first 24 hours, then 5 mg t.i.d. or q.i.d. as needed; adjunctively in skeletal muscle spasm, 2 to 10 mg t.i.d. or q.i.d.; adjunctively in convulsive disorders, 2 to 10 mg b.i.d. to q.i.d. Geriatric or debilitated patients: 2 to 21/2 mg, 1 or 2 times daily initially; increasing as needed and tolerated. (See Precautions.) Children: 1 to 21/2 mg t.i.d. or q.i.d. initially, increasing as needed and tolerated (not for use under 6 months).

Supplied: Valium³ (diazepam) Tablets, 2 mg, 5 mg and 10 mg; bottles of 100 and 500. All strengths also available in Tel-E-Dose[®] packages of 1000.



should be told that the statistics at present

geon performing a vasectomy should take

every precaution to increase the possibility

This would include, said Dr. Dorsey,

"The closer you gat to the epididymis, the more angulated the vas and the smaller

doing the vascetomy higher up, away from

the convoluted portion of the vas deferens.

it is in caliber," he said. "This makes the

procedure extremely difficult and some-

times impossible to achieve n satisfactory

vasovasostomy is not a contraindication to

reoperation. Nine of his cases, he reported,

cessful results were achieved on the second

operation, and a sixth patient required

three attempts. Ha said that success is pred-

icated on the presence of vinble sperm in

the ejaculate in numbers varying from

There was also consensus that the sur-

indicate that reversal is not probable.

Vasovasostomy Productive in Only 1 Out of 5 Voluntary Sterilization, agreed that the

of reversibility

Medical Tribune Report

NEW YORK-The man who has undergone avasectomy has only a one-in-five chance of ever fathering a child if he elects to reverse the procedure, a panel of urologists warned here at n meeting of the American Urological Association,

Reporting on a questionnaire sent to members of the association on their experience with vasovasostomy, Dr. Fletcher C. Derrick, Jr., of George Washington University School of Medicine, Washingion, D.C., said that replies from 540 physicians who had done the procedure indicated that the subsequent avernge pregnancy rate was 19.5 per cent.

Dr. John W. Dorsey, of the University of California College of Medicine, Irvine, reported that in his series of 129 patients, the pregnancy rate, "based on inadequate follow-up," was about 18 per cent.

Dr. Derrick's survey showed a 3g per cent chance of sperm return following vasovasostomy, and Dr. Dorsey's study showed gg per cent.

The gap between the ratio of spcrm rcturn and pregnancy success, said Dr. Derrick, is due to a number of factors, including one that he called "fertility relativity." Many couples, he noted, have difficulty in achieving pregnancy, and yet, when the couples are mixed, as after n divorce and remarnage, pregnancy may ensuc.

Takea Two to Tango

"You just can't sny that n man, or o marriage, is sterila or fertile on the basis of elther a normal or abnormal malo or female," he declared. "It is alwoya fertility relative-it takes two to lango."

"In discussing a vasovusostomy with a patient," Dr. Derrick continued, "I usually use round figures, I tell him that from my experience there is a 50-50 chance of helping him to recover sperm in his semen. With recovery of somen, he then has a 50-50 chance of getting his wife pregnant."

The two physicians, as well as Dr. Abel J. Leader and Samuel D. Axclrad, both of the vasectomy clinic nt Planned Parenthood, Houston, Tex., and Dr. Joseph E. Davis, president of the Association for

Heart Care Units In Massachusetts **Found Underused**

CAMBRIDGE, MASS.-Massachusetts facilities for the treatment of coronary heart disease are, on the whole, underused and haphazardly distributed, a Harvard Medical School study reports.

The study, by the Department of Preventive Medicina and the Graduate School of Design's Laboratory of Computer Graphics, used computer models to examine the present accessibility, capacity, and expected use of the Commonwealth's 94 coronary care centers.

Elimination of some ceoters and a reshuffling of the patient load in thosa remaining were recommended, to ensure thal no unit is overtaxed or left with empty

Bernard Bloom, principal associate in the Department of Preventive and Social Medicine, directed the investigation.

Units Should Be Near

In conducting the study, the team presumed that coronary care units should be no mora than 30 minutes' drive from pofential heart patients, that every patient should have a 95 per cent or greater chance of admittance to a center at any ilme, that the five major teaching hospitals in Boston relain their existing CCU's, that at least one CCU exist in each of the suburban areas around Boston, and that each unit have at least eight beds.

Calculations indicated that the number of ceaters could be reduced 59 per cent and the oumber of beds 25 per cent, from 466 to 356, Only one new CCU, oo Nanluckel, seemed indicated.

7,000,000 to over 100,000,000 spermatopatient who seeks to reverse a vascetomy

Drs. Axelrad and Leader reported that their study of 2,711 vaseciomles "otlests

to the safety and inaccuousness" of the procedure in a clinical seiting and under local onesihesio. Their results indicate, they said, that approximately one in 400 procedures will fail.

Vasectomy "Not Infallible"

"From this we must deduce that vasectomy, slthough the most effective form of surgical contraception presently available, is not infallible, and this point must be stressed in order to avoid medicolegal complications," they commented,

In 2,227 vascctomies in which cotton He noted that when anaatomosis of the ligatures were used to occlude the vas ends, vas deferens is not technically feasible. the major complication rate was 4.4 per epididymovasostomy should be attempted. cent. In the 484 cases in which hemoclips Dr. Dorsey added that, In his axperiwere used, it was cut to 2.7 per cent. ence, a previous unsuccessful attempt at

Fifty-three vascetomies were performed in the face of pre-existing medical conditions usually contraindicating outpatient were subjected to reoperation. In five, sucvasectomy. The surgeon was aware of the condition prior to surgery and the patient was informed of the increased risk.

> "Neither major or minor complications developed in any of these patients," the

Tatellistice on Steing

José Felipe Flores



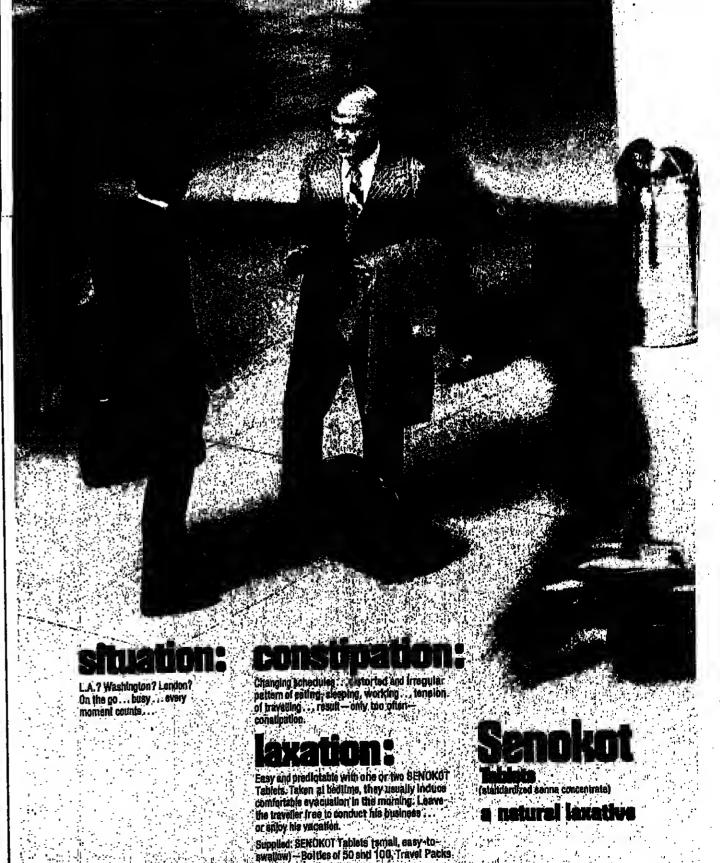
Born in Chile, José Felipe Flores (1751-1814) received his medical degree from the University of Santiago dc Chile In 1773, In 1785 he joined the San Juan de Dios in Guatemala as house surgeon. Studying later at European universities, he brought back knowledge of the latest medical advances, particularly in anatomic dissection and preparation for surgery, to Central America. Hc also introduced the use of wax nnatomic models as a teaching tool.

Guatemala issued the stamp honoring Dr. Flores on December 12, 1962.

Text: Dr. Joseph Klar Stamp: Minkus Publications, Inc., New York

Purdue Frederick

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One Man...and Medicine

ARTHUR M. SACKLER, M.D., International Pablisher, Medical Tribu

'Ages in Chaos'

IN HIS Ages of Chaos, Velikovsky expands on his thesis that a natural global castastrophe occurred at the time of the Exodus of the Israelites from Egypt. The consequences of his hypothesis sweep across the chronology of the Mediterranean basin and in their sweep convert n number of legends or "nonhistory" into reflections of historical events. The Holy City apparently has been a holy city for millenniums. In Ages of Chaos much that is in the Scriptures takes on a new

dimension. How many characters of the Bible are really historical personages? Is the Queen of Sheba, for example, a mythical figure or a real queen? Are the carvings on the temple wail at Karnak an inventory of the vessels and furnishings of the Jerusalem temple? Could the plagues of the Exodus, the parting of the wnters, the smoke, fire, and rumblings of Sinai of the "Biblical story," have been manifestations of a natural catastrophe? Could they linve been related to a titanic cataclysm of global forces? Were there other records which corroborated Biblical events? Velikovsky attempts to separate the literal from the figurative in the "holy books."

Astonishing Similarities

It was about 1940 when Velikovsky read in the library of the Metropolitan Museum of Art a passage from the Egyptlan Papyrus of Ipuwor (translated in 1909), which has been preserved at the University of Leyden sioce 1828, With this lead, Velikovsky proceeded to seek an integration between the Bible and Egyptian and other documents, Velikovsky juxtaposed Biblical phraseology with that of language of the papyri. The paral-

Exodus 7:20 ". . . n/l the waters that were in the river were turned to blood." 7:24 "And all the Egyptians digged round nbout the river for water to drink; for they could not drink of the water of the

Papyrus 2:10 "The river is blood. . . . Men shrink from tasting . . . and thirs!

Exodus 9:23-24 "... the fire ran along upon the ground . . . there was hail, and Papyrus 2:10 "Forsooth, gates, columns

and walls are consumed by fire." Exodus 9:25 ". . . and the hail smote every herb of the field, and brake every tree of the field."

10:15 "... there remained not any green thing in the trees, or in the herbs of the fields, through all the land of Egypt."

Papyrus 4:14 "Trees are destroyed." 6:1 "No fruit nor herbs are found. . . . " 6:3 "Forsooth, grain has perished on every side."

Velikovsky compared the catastrophe described as having occurred at the end of the Middle Kingdom in Egypt with the description of the plague found in Exo-dus, and this led to his discovery of the distortion of historical perspective or the displacements of history in the ancient world by over 500 years. He concludes that metaphors alone could not necount for similarities so strong and so close and suggests that different individuals observed a common or, rather, very uncommon event. To bear further testlmony to this thesis, he described not only the bas refiefs on the walls of Karnak but also the state archives consisting of clay tabicts with chaeifnrm signs found at Tell cl-Amarna. Here again, similarities in events, names, officials, suggest the improbability that the Biblical of the Tell el-Amarna sources were referring to "happenings" recurring at two intervals sonarated by 540 years in time. For this to be so would have been a remarkable coincidence-not of history repealing liself, but of virtually being replicated even to the most incredible minutiac.

Having experienced the rigidities of fire mingled with the hall, very grievous." we were faselnated to explora the sources Ancient Major Catastrophes Described by Vellkovsky

Valikovsky holds that man was exposed to several major cotastrophic events; two scries of these took place, one in the 15th century before the present cra, or 3,400 years ago; the other of lesser intensity, in the eighth and the beginning of the seventh century, 2,700 years ago. He presented this in his book, Worlds in Collisian, and summarized:

"The story was told of hurrhanes af global magnitude, af forests burning and swept away, of dust, stones, fire, and ashes falling from the sky, of mountains inciting like wax, of lava flowing frain riven graund, of koiling seas, of bituminaus rain, of shaking ground and destrayed cities, of humans seeking refuge in caverus and fissures of the rock in the mountains, of oceans upheared and falling on the land, of tidol waves moving toward the poles and back, of land becoming sea by submersion and the exponse of sea turning into desert, islands born and others drowned, monntain ridges leveled and others rising, of crowds of rivers seeking new beds, of sources that disoppeored and others that became bitter, of great destructions in the animol kingdom, of decimoted mankind, of migrations, of heavy clouds of dust covering the face of the earth for decades, of magnetic disturbances, of changed chinates, of displaced cardinol points and altered latitudes, of disrupted calendars, and of sundials ond water clocks that point to changed length of doy, month and year, of o

of the storm which Volikovsky has raised. We were particularly interested in the methods whereby a physicien and a psychoanelyst could venture into the field of cosmology and geology and, with equal boldness, into a challenge of conventlogal history. We found that his technique ls one which is fundamental to all medicine and biologic investigation-an insistence on an internal consistency of data, a correlation of clues, an imaginative search for causality, then a definitive, if unconventional, diagnosis and a bold prognosia, I ilke Velikovsky's guts. His postulates reach high; he is nudnelous, and in his probing he rightly claims "the right to fallibility in details." Above all, I have loarned that in research which breaks new ground, he is so right when he says, "at

In his "Ages of Chaos," Velikovsky suggests that events in the Egyptian Papyrus of Ipuwer suggest that a natural catas-Scriptures like the plague of the locusts (left) and the plague of trophe did occur at the time of the Exodus, as comparisons blood (right) were reflections of actual events. Both the Bible and between the two (see story above) indicate.







Wednesday, July IL M pHisoHox - Brief Summary sudsing antibacterial soapless skin clean phisoHex contains a colloidal dispersion hexachlorophene 3% in a stable employ consisting of entsuton (sodium orbide coxyetherxyethyl other sulfonates 50%, per lating 7%, langlin cholesterols 0.7%, ne ylceflulese, polyeflylene glycol, polye, ylene glycol monustearate, lauryl myse diethanodamide, sodiam benzoale w water, pil t5.0 to 6.01 is adjusted se leviline block acht. All ingredients whe Actions: pllisulex has bacteriosiate; tion against staphylococci and other grepositive bacteria. Cumulative antibacted action develops with repeated use Indications: nillsoftex is indicated form as a singical scrule and a bacteriosistic & cleanser. It may also be used for washing control an outbreak of gram-positive in tion in the nursety when good hospital pactice has been inadequate as a total program of infection control. It should be used as as long as necessary for infection confed Contraladications: pHisoHex should not used on burned or denuded skin. It show not be userl as an occlusive dressing us pack, or lettion, it should not be used to tinely for prophylactic total body babing It should not be used as a vaginal pade tampon, or on any mucous membranes phlisoflex should not be used on person with sensitivity to any of its component

chlorenbene. Warnings: Rinse thoroughly after use, es cially trans sensitive areas such as f scrainn and javineum.

It should not be used on persons who has

demonstrated primary light sensitivity a halogonated phenol derivatives because

the possibility of cross-sensitivity to her

If left in contact with burned or denud skin or muccons membranes, sufficienther chloroghume may be absorbed to care tersic symptems. Infants, especially pr mature Infants or those with demators are jouticularly susceptible to hexachlors phrace absorption. Systemic toxicity may be manifested by signs of stimulation (mi-tation) of the central nervous system, some times with currentsions.

pitisul lex should be discontinued manual il sinus or symptoms of cerebalinishin occur, Experimental and clinic eidence findicates that hexachlarophene with a niversible.

In a soull minuter of regented cases, lata intersecutions from bexachbarophene have presured. These cases include misuse of 34 laran blumplarer un burnet skin er expo suce to a provider accidentally containing approximately 6.50 hexachlorophere is annitations of Irain tissue in some of the cases revealed vacualization like that which can be preduced in anythin experimental anionals fidhaving repeated topical application of 3% hexar blumphone for 90 days. pl lised lex is intended for external use only. to our own early medical investigations, we were fascinated to explora the sources new."

first a new ideo is regarded as not true, if so allowed, illisoidex is hamful especially to indents and later, when accepted, os not being should not be presented into measuring cup. medicine houses, or similar container since it may be mistaken for haby lormula or other predications.

Precautions: pl tisol lex suds that get into the eyes accidentally during washing should be rinsed out premptly and thoroughly. Adverse Reactions: Dermatitis and photosensitivity. Sensitivity to hexachlore is rain; however, persons who have de veloped photoallerry in similar compound also may become sensitive to hexachlare

in persons with highly sensitive skin, the use of pitisid lex may at times produce a reaction characterized by cedness and/o mild scaling or dryness, especially whend is combined with such mechanical factors as excessive rubbing or exposure to heat

Treatment of Accidental ingestion: The accidental ingestion of phisohex in amounts from 1 to 4 nz. has caused anominal vonificing, abduminal cramps, diameters, wonificing, abduminal cramps, hypotensistens, hypotens, hypotens rhea, dehydration, convulsions, hypoten rhea, dehydration, convulsions, hyporsium and shink, and in several reported instancies, fatalities, iSee Prescribing Information fee detailed treatment.

How Supplied: pHishHex is available in unbreakable: plastic squeeze bottles of ouncos, 1 pint, and in plastic bottles of ouncos, 1 pint, and in plastic bottles.

Few detailed DIRECTIONS, consult Piescribing Information.

Wirthrop Winth op Laboratories New York, N.Y. 10016

caring handisis not a carrier The nurse's hand washed with pHisoHex® is an important part of the anti-Staph protection for the newborn. The protection can be maintained throughout the infant's stay in the hospital nursery by having nurses wash their hands with pHisoHex before and after handling each infant. The physician can maintain this antibacterial protection at home by prescribing the use of pHisoHex for mothers' hands before handling the baby. pHiso Hex creates a bacteriostatic film on skin. There it remains to inhibit growth of microorganisms. And nonalkaline, hypoallergenic pHisoHex is kind to skin. Won't tend to dry or irritate, even when used frequently. to help take the Staph problem off your hands

ATLANTA, GA.-Meleproterenol sulfole is proterenol." "far superior" to isoproterenol es e bronchodilator and should be approved by the Food and Drug Administration for use in the United States, the American College of Allergists was told here.

"Isoproterenol is e fine dilator, but it is very short setting," said Dr. Allen Hurst. Assistant Professor of Medicine et the University of Colorado. "Its ection is compicte in one end a helf to two hours. Meteproterenol, aveilable in Europe for the pest 12 yeers, leste eboul four hours. It

Simple Medical Services Suggested of Pharmacists

Medical Tribune World Service

STONE : AUSTRALIA-I ne president of the Pharmacy Guild of Australia, Alan Russell, hes proposed that phermaciste teke some of the work load from physicians by providing some of the more simple medi-

"A pharmacist has the right to use his knowledge, end he has the knowledge to send patients to the doctor when neceseery," he said.

Doing little things better

He reported that en investigative study 65 patients using metoprolerenol showed that results were good both during and between esihmntic attacks. The ngent cen be used in inhalation thorapy as well

"It will be a tremendous boon to all of this drug is put on the merket in this

New Drug, Cromolyn Sodium, Said To Benefit Asthma Patlants

From University of Miami

► A report on enother new drug of benefit to eathme patients but not yet generally available, promotys sedium, was detailed by Dr. Mayer B. Marks, Clinical Professor of Pediatrics at the University of Miemi (Fle.) School of Medicinc. He seid he had used the drug la about 80 children end young edults "with remerkeble

Dr. Marks described the egeat es "e prophylectic, therepeutle preparation for the prevention of ettecks of bronchiel esthme." He noted that it is useless in

elso hes much loss side effects then iso- terminating nn alrendy established asthmatic attack.

"Crontolyn sodium has been found most efficacious in many severly uffected esthmatic patients only partially controlled by modern allergy therapeutle methods, including hyposensitization, brouchodintor preporeilans, und cortleusterplas," Dr. Marks sald, "Many children were relieved us," Dr. Hurst commented, "if and when of night cough and enjoyed undisturbed sleep for the first line, to the astonishment of parents and the nursing stail."

Dr. Marks reported that the drug was effective in mitigoting asthautic attack in almost 50 per cent of his patients, and another 25 to 30 per cent "eould reduce their lotal drug inlake and often epayert from e dally to an alternate-day steroid program." He ndded that 20 to 25 per ecut of the patients failed to respond to cromolyn sodium to any noticeable degree.

Cromolyn sodium is inhaled funr times daily by the patient, Dr. Merks snid, and it is edministered by use of a specially designed turbolnheler into which a cepsuic containing 50 mg. of the drug is inserted.

Noting that the drug already has been used extensively around the world, Dr. Merks seld he is hopeful the FDA will approve it soon for use in the United States.

Age a Factor In Operation

BALTIMORE-The patient's age was un. portant factor in the mortality rist of Binlock-Taussig operation to corregg cuspid alresia, according to Dr. Helm Tanssig and colleagues at Johas Hope-University School of Medicine.

was 23.2 per cent," the report said. The majority of operations were up

"Thirteen of the 18 patients who line for 20 years or more had their first open

The size of the pulmonary orifice at the pulmonnry artery made little die.

Dr. Taussig's colleagues in the sing Journal, were Rilvo Keinonen, Ne Mombergor, and Hermine Kirk.

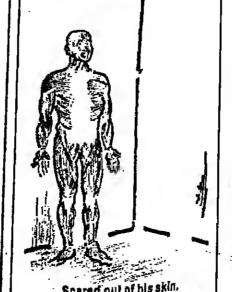
Protein Lag Misunderstood

GENEVA. SWITZERLAND-Dr. C. Gopsie, developing countries.

"Some people concerned with potenyrınıg."

Dr. Gopalun, who was in Geneva to development at the headquarters of the World Health Organization, said that protein-enforie deficiency nrises not because the diet is deficient in protein quality but

bles that make up their normal diet, they would cestly get all their protein require ments, Dr. Gopalan said.



After n study of 56 of Dr. Alfred B lock's patients, they concluded that be inlity was highest in young infants and ilecreuseil sharply after the age of for years." Of 10 who had the operation deing their first year, four died, In the 124 23-month age group, three of 13 pales died. Three of 10 patients and three after the cour years died. But "among the eight tients operated on in the five-to-th-particular and the course of the cours group, only one petient died." "The over-all surgical mortality is

clavian pulmonery end-to-side anasion sis on the opposite side to the north and

tion performed on the opposite side to be aortic arch." the report acted.

ence in the mortality. published in the Johns Hopkins Medica

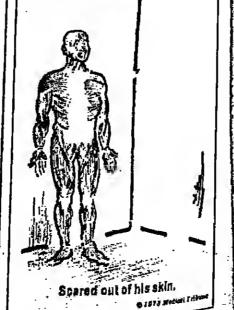
director of India's National Institute d Nutrition in Hydernbad sall !protein concentrates, which are being pomoted in many food aid program, se "unnecessary and uneconomical" for met

caloric malnutrition give the impushed available illets are delicient in protoin,"he suid. "And on the basis of that thinking? is widely believed that what is wanted it protein-rich concentrates. But this &

heenuse food intake is low.

Instead of getting 1,000 to 1,200 calorics ilaily, many Indian children are geting only 800 calories, he said. If they had the 400 colories that comprise the gap. then, with the rice, legumes, and vegets.

The situation may be different in Africa, he observed, because the African diet is besed on cessare, which is a poor source of protein. With such e diel, even given 1 lerge omount of calories, there is still protein deficiency, he seid.





This Scanning Electron Micrograph (7000×) is the first 3-dimensional view of a cell in an ulcerated duodenum. The center is completely denuded, surrounded by felrly well-preserved microvilli. This SEM photomicrograph was taken from a scientific exhibit which won the Hull Award as the "best exhibit on original research or instruction on a medical subject" at the A.M.A. Clinical Convention, November 26-29, 1972, in Cincinnati, Ohio.

The Tireless Man

Ceusal reletionship has not been established clitacelly.

Adversa Reactions: No side effects or mentfestations not seen with either compound alone have been reported with Librax. When chlordiazepoxide hydrochloride is used elone, drowsiness, ataxia and confusion may occur, especially in the elderly

whose duodenal ulcer needs a rest

Up early, home late, often with a scratch pad filled with notes, figures, plans. A few hours' sleep and then another long day. This is often the routine of the tireless hard driver, one-man committee with enough overwork and stress to wear out several men. But his duodenal ulcer may warn him with sherp discomfort that he had better ease up, let some things go, and give himselfand his uicer-a rest.

The need to reduce G.I. hypermotility and hypersecretion

Overwork together with overanxlety are often principal factors in exacerbating a duodenal ulcer. To help reduce the increased gastric secretions and hypermotility, therapy may need to include treatment for associated undue anxiety—which is where dual-action Librax can be highly useful.

The dual nature of Librax

Only Librax combines, in one capsule, the antianxiety action of Librium®

Belore prescribing, please consult complete product information, a summary of which follows:

Indications: Symptomalic relief of hypersecretion, hyper-motifily and anxiety end tension states associated with organic or functional gastrointestinel disorders; and as adjunctive therapy in the management of peptic vicer, gastritis, duo-denills, trrilable bowel syndrome, spastic coulis, and mild vicerative colitie ulcerative colliis.

Contraindications: Patiente with glaucoma; prostatic hyper-trophy and benign bladder neck obstruction; known hypersen-silivity to chlordiazepoxide hydrochloride and/or clidinium blomide.

Warnings: Caution patients about possible combined effects with alcohol and other CNS depressants. As with all CNSwith alcohol and other CNS depressants. As with all CNS-acting drugs, caution petients against hezardous occupations requiring complete mental electness (e.g., operating ma-chinery, driving). Though physical and psychological depend-sice have rarely been reported on recommended doses, use caution in administering Librium (chlordezepoxide hydro-chloride) to known addiction-prone individuals or those who might increase dosage; withdrawal symptoms (including convolsions); following discontinuation of the drug and simi-lar to those seen with berbiturates, have been reported. Use of any drug in pregnency, lactation, or in women of child-

nium br). As an adjunct to a therapeutic regimen, Librax may help relieve both somatic and associated anxiety factors that often contribute to the exacerbation of duodenal ulcer symptoms.

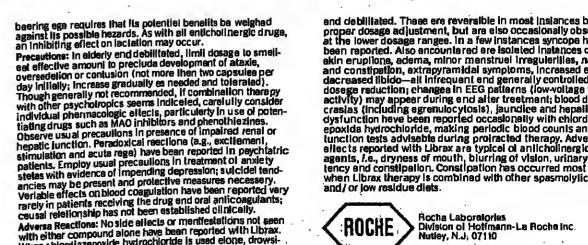
Up to 8 capsules daily in divided doses

For optimal response, dosege should be adjusted to your patient's requirements-1 or 2 cepsules, 3 or 4 times daily. Rx: Librex #35 for initial evaluation of patient response to the repy.

Rx: Librax #100 for follow-up therapy—this prescription for 2 or 3 weeks' medication cen help maintain petient gains while permitting less

For the anxiety-linked symptoms of duodenal ulcer

and debilitated. These are reversible in most instances by proper dosage adjustment, but are elso occasionally observed at the lower dosage rangee. In a few instances syncope has been reported. Also encountered ere isolated instances of been reported. Also encountered are isolated instances of ekin erupilone, edema, minor menstruel irregulerilles, nausea and constipation, extrapyramidal symptoms, increased end dacreased libido—alt infrequent end generally controlled with dosege reduction; changes in EEG patterns (low-voltage fest activity) may appear during end alter treetment; blood dyscrasias (including egrenulocytosis), jaundice and hepalic dysfunction heve been reported occasionally with chlordiezepoxida hydrochloride, making periodic blood counts and liver tunction tests advisebte during profracted therapy. Adverse effects reported with Librax are typicel of anticholinergic agents. i.e., dryness of mouth, blurring of vision, urinary hesiagents, i.e., dryness of mouth, blurring of vision, urinary hesi-tency and constipation. Constipation has occurred most olian when Librax therapy is combined with other spasmolytics





Hyderdine® -1 an Aille

with cerebral arteriosclerosis*

caring better for his basic needs,

significant advance for the patient

less confused in his thinking; no great

accomplishment for most people, but a

SUBLINGUAL TABLETS containing 0.167 mg. dihydroergocomine methanesulfonete, 0.167 mg. dihydroergocristine methanesulfonate, and 0.167 mg. dihydroergokryptine methanesulfonate

helps patients with cerebral arteriosclerosis do little things better

The usuel dosage is four to six sublinguel tablets delly. The pallent's improvement with Hydergine is usually damonstrated in four to six weeks. Some nasel stuffiness due to edrenergic blockade, Iranslent neusee or gastrio disturbances heve been reported with high dosages.

72-438R

*Indications: Based on e review of this drug by the National Acedemy of Sciences— National Research Council and/or other Information, FDA hes classified the Indication es follows: "Possibly" effective: The treelment of cerebral arterlosclerosis and dizziness,

mood chengee, nocturnel cramps, end paresthesias in line eged. Final classification of the less-lihen-effective indicellone requires further investigation.

SANDOZ PHARMACEUTICALS, EAST HANOVER, N. J. 07936 BANDOS

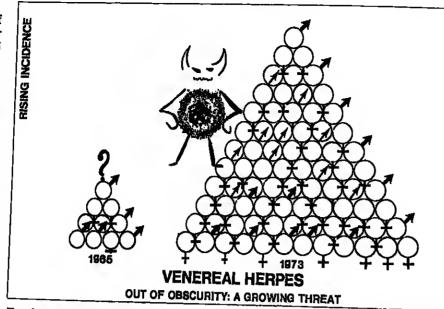
Continued from page 1

He reported that an informal survey of practicing gynecologists in the Rochester nrea confirmed the fact that prior to 1965 venereal heroes virus infection was virtually never seen.

Other investigetors Cancur

"Other investigators also firmly believe that the incidence of the disease has increased dramatically lo the last five or 10 yeers," he added. "In my owe private practice, excluding those patients referred beenuse of the infection, gonorrhea and syphills are less frequent than the herpes virus infections,"

The disease can be diagnosed, he noted, either by examining a standard Papsnicolaou-stained preparation or, even more accurately, by inoculating appropriate tissue culture cell's with suitable clinical specimens and isolating the virus. The infection, while painful and temporarily diaabling, he said, does not lead to the chronic pain, disabilty, and infertility associated with gonorrhee or the "many fearful manifestations of late syphilis."



Dr. Amstey reparts that as informal aurvey af gynecalogists in his area has shown a dramatic increase in venereal herpes alsoplex (type 2) is the past five or 10 years. In addition, evidence has been maunting that links the herpes virus with more serious disarders, such as cervical caacer and infection af the newborn.

Women's Needs Put Doctors 'at Crossroads'

Continued from page 1

the responsibility to decide on sexual standards for any woman.

"Our ethical responsibility is to teach her to live with who she is, and all of those thiogs she may never be," Dr. Jorgensen sald. "Our medical responsibility is to treat her in both illness and health and then fol-

Retiring A.M.A. Head Fears Loss in Quality Of Medical Services

Continued from page 1

medical cara," said Dr. Hoffman, also "is the primary danger of the Kennedy-Griffiths bill" for a national health insurnoce aystein.

"Far years we have talked about the specter of socialized medicine," ha said. But "we've already lost. . . . We liave soelelized medicioe. The trus danger, and tha true abjective of the Konaedy-Griffiths bill, is nationalized health care—the campleta and total taknover of the entire heelth care delivary system by the Govern-

However, he said, the A.M.A. should oot "stand opposed to any kind of Government iovolvement in health care." The Government funds to upgrade emergency medical care on nationwide basis-along the lines of a bill that the A.M.A. already is aponsoring.

The quality of medical care is "Inseparable from the bond between doctor and patient," Dr. Hoffman sald. Therefore, "I am opposed to our profession turnlog to unionism as the answer to our problems."

A growlog interest lo unionization among practicing physicioos has spawned at least six local organizations across tha service they are oot on call at the hoapital country in the past year that now are affillates of the A.F.L.-C.I.O. Twice that grounds as long as radio coatact is mainpursue collective bargaining by physicians. 7 A.M., or at suerise in winter, and ends at All told, an estimeted 20,000 or more U.S. suoset. physicians have signed up in unloulike organizations. The A.M.A. frowes on the trend as "divisive" for organized medicioc.

Dr. Hoffman reminded the members that "our sense of unity as a profession darives from serving the public, not from holdlog it as a hostage. The latter course is an inevitable result of uolonism. No matter bow noble the intentiona at the outset uaions possess no other streogth."

Research on Stones Set

Medical Tribune World Service

BEIRUT-A team at American University Hospital here has received a grant to investigate the high prevalence of kldney and ureleral stones in Lebanoe.

Iow through by teaching her to live with

The Philadelphia gynecologist cited an increase in psychosomatic complaints as one result of women's struggle to adjust to "a rapidly changing era." Noting that perhaps 80 per cent of the complaints heard in routine gynecologic practice have n strong psychosomatic component, she urged collengues to listen with an "understanding car" to their patients and to treat the aymptoms with sympathy.

Askod Abaut Tima Fector

At press conferences, Dr. Jorgensen was asked if it would not be too timeconsuming for gynecologists to educate patients as well as to true in to emotional problems and treat medical conditions.

"This has always been an excuse for weaseling out af responsibility," sha repiled, "Actually, I don't think it takes as ouds fine to talk to e patient-to tell her what's goleg oe, what is ar isn't necessory, and get some feedback-as to heilge and perhaps fabricate.

"We speed a great deal af thine when petients come back again end egain be-couse thay are dissatisfied. Misutes speni vant ta their needs, would take less time." to judgo.

The feilure of gynecologists to offer this kind of care has contributed, Dr. Jorgensen said, to the present trend seen in some sections of the enuntry for women to treat each other-to perform menstrual aspiratinn, do their nwn Pap smears, and at-

tempt unsupervised home deliveries. "I cannot candone self-care," Dr. Jorgensen said emphatically. "For example, nstruul aspiration carries the risk of perfuration and infection, and I have seen tragedies result from it."

She asserted that women are turning to their peer groups for help heenuse they are more comfortable talking to each other than in trying to obtain auswara to their questious and an understanding of their problems from genecologists,

One unijor block for physicians has been the feeling that they must somehow change their own morid standards and beliefs if they treat patients with differing stundards, Dr. Jorgensen commented.

This is a misapprehension, since women "don't expect their gyuccologists to ngree with what they may be doing," she said. What women want, she signified up, is someone who will discuss without condemning and who will provide objective In listening, in being honest in a way rele-

organization should, for instance, push for improvement of the Indian Haalth Serv-Save Lives of Road Victims

Medical Tribune World Service

MUNICH, WEST GERMANY-A team of lives of road victims in this area of aouthero Germany. The physicians, 20 in all, are from the surgical and anesthetic departments of Harlaching Hospital and give services voluctarily.

grounds as loog as radio coatact is maingroups elso have formed to tained. The duty turn starts between 6 and

The doctors form part of a craw that

number of hospitals in urban centera, con- 220 cases. tain all the equipment necessary for treating ao accident victim on the spot as well as during flight. The emphasis is on main-

The radius of 100 Km, originally set

accident operationa headquarters run in "belicopter doctors" is helping to save the automobile club. Ground reseue is called at the same time, On the average, it tukes tha helicopter two minutes to get into the air and eight minutes to reach the site of the accident. The flight to the nearest hospital also takes an average of eight minintes. Road ambulances, which have to contend with traffic jams, cannot match auch apeed of operation

1,800 Flights in 2 Yeers

Between November 1, 1970, and Seplember 30, 1972, some 1,800 reseuc flights locludes a pilot trained in first sid and a cident victim was dead on arrivel. Finerwere made in Munich. In 80 cases the ac-The helicoptars, which are based at a No immediate treatment was required in gency treatment was required in 230 cases. Highs or luns, and yet I seem to be just

Not everyone receiving on-the-spot manic depression is territying, and treatment was flown to the nearst hospital, tion, its nonidentical sister, is even more tion, its nonidentical sister, is even may be for talning respiration and circulation. Space is available for the transport of two na-

for accident rescus service has proved to be too large. Distances of 50 to 70 Km. year who would otherwise have died. Bose ged, ignorance of these illausses, the value and the standard ged, ignorance of these illausses, the value and the standard ged, ignorance of these illausses, the value and the standard ged, ignorance of these illausses, the value and the standard ged, ignorance of these illausses, the value and the standard ged, ignorance of these illausses, the value and the standard ged, ignorance of these illausses, the value and the standard ged, ignorance of these illausses, the value and the standard ged, ignorance of these illausses, the value and the standard ged, ignorance and th from base, however, can be well covered.

The avarage distance in the Muoich area

year who would otherwise have died. Boy ged, ignorance of these illausses, the cause of prompt treatment, meny others luck of knowledge that they are able to have have been of the The average distance in the Muoich area have been apared physical disahlement. The helicooter is collected and other pared physical disahlement has treated until the seeming case of the

Lithium Considered Therapy of Choice

Communed from page I

thes their high-energy slote become he proprinte. In its influer forms, he sold manla may be one of the positive disk forces in creative unil productive persor and therefore, he warned, liftium shall he used judiciously by experienced play

t.lthlipm carbonate, sald Dr. Flee "really can be ralled the first prophie tle agent available in psychlatry beam It not only culms the numbe state but the prevents future recurrence of both med and depression.

He deplored the fact that, despite this only a small fraction of patients soffein from manie depression are being treated with the agent.

"Of the at least 6,000,000 individual utfected in the United States," said D. Fieve, "only 50,000 are at present receg lithium.

He urged that n wide educational can paign he waged to hring lithium to the t tention of the medical profession and its general public.

Correct Dingnosis important

Pointing to the necessity of corrects diagnosing manie depression, he said had a study has shown that over 30 per ces "schizophrenics" in New York State mental hospitals were found to be & pressed or manie-depressive. Secone of unislabeling, he said, these patients have undergone countless sessions of psychotherapy, as well as treatment with electroshock and multiple tranquilizers and midenressants.

Recounting his experience during N years as a manic-depressive, Mr. Logasaid that the onset of his depresse as insidious. "I know I felt bad, baloid imagine I was sick." He had to bee himself to work, and he was not misted with the results.

When mania set in, Mr. Logan said "I was tairly flambovant in my thought, imagination, and speech, . . . I put off) thousand fileas a minute things to do plays to write, plots to write stories about

Could Have Committed Crime

This manie state, he recounted, finally went over the hounds of reality. "I don't menn that I committed any crimes, but I could easily have if anyone crossed me He was persuaded by o physician to eak? a hospital. On admission, when he dis covered that his door was locked, he leaped out on the window ledge and threatened in climb down the outside wall unless the door was unlocked. That's manie elation for you!" he said.

The only treatment be received in the huspital was rest and "pleasant physical exercise."

For many years thereafter, he con thrued, he received no definite treatment He then entered a manie period againsuccessful plays. Thirteen years after his first hospitalization, he hecame ill again and received electroshock therapy.

At about that time he read about lithlum and went to Dr. Flere for ireafment. "tt made nie feel Infinitely beller abnut my life and gave me renewed hope for my Inture.

"I'm nut conscious of the slightest of es productive as I've ever been."

"I believe," Mr. Logan stated, "hat lacce could provide transportation to hos-



The Mail

. "The National Henrt and Lung lustitute is seeking institutions to study populations rather than copulations of lung cells as described in the contract offering discussed in the OFHR Newsletter of January 19," says the OFHR (Office of Federal Health Relations) Newsletter for February 2, sent us by Dr. Alan T. Webb of Downey, Calif.

It says that on page I, that is. On page 3 it says that Fehruary 26 is a deadfine for offering contracts "to develop primary and continuous cultures of homogeneous copulations of lung cells."

Someone somewhere is blocked, and interestingly.

- . Dr. Carlon R. Baczn of Odenton, Md. was taken by a sentence, in a publication of whose title we're not sure, that said: "Contemporary radiators are frequently white and hence radiate negligibly, warming s room by conviction." He thinks hypnotists might be interested.
- a "Insects fatally affected by the garlie compound include certain mosquitoes, the potato tuber, the red palm weevil and the common house fly," reports Mechanic Illustrated, causing Dr. B. A. Michaelis of Fredericktown, Mo., to express concern about the effect of this news on people who have thought themselves vegetarians.
- The mother paper (and ticaven help us): Dr. Michaelis, us well as Drs. llernadine Z. Paulshock of Wilmington, Del. and Meyer I. Krischer of Norfulk, Va. all called attention to it sentence that unaccountably ran: "The syndrome [prunebelly), first described in 1895, consists of deficient abdominal masculature, cryptorchidisa...." Unaccountable, unaccount able, unaccountable.
- Classic: A. M. Lotz of Olympia, Wesh, sent us a copy of the Stattle Postintelligencer that said: "The typo of operation you are lalking about is known as a suprapublic prostatectomy."
- a Danglers: "Inne Lancaster, Ph.D., fnrmerly with the University of California at Berkeley, is the mother of two hoys and a primatologist," said Todny'x Health. ("Bet that last one was tough to deliver," commented Dr. Edgar End of Milwaukee in the course of sending the quotation in.) And Dr. Gordon M. Meade of Rochester, N.Y., found the following in his city's Democrat and Chronicle: "The more apathetic of the drug users may not have responded to the initial auestionnaire, he points out, and the sample was probably loaded with chronic users of superior intel-
- Dr. David Patron of Lakewood, Colo. received, from one of his local hospitals, a memo eotitled "Texts Added to the Medical Library." Item 59, we're frightened to report, reads: "Parsons and Ulfelder-Ailas of pelvic operations (re-
- · Ectopic Beat, reporting that a Caribbean four advertised that it included a and a barbeque, asked, "What's

"Chinese haircut, of course," answered Dr. Juliao A. Waller of Burlington, Vt.

- "More literal than figurative," write Dr. Lester J. Candela of Great Neck, N.Y., of a headline in the Long Island Fress that read: "A Widow Often Inherits Grave Fioancial Straits."
- Dr. E. H. Heinrichs of Watertown S.D., found the following lo a program of an American Academy of Pedratrics Continuing Educatioo Course: The 'First World Hot Air Balloon

Championship' will be held in Albuquer que beginniog February 10, 1973. Over 100 participants are expected. This func tion is not directly connected with the Course."

He wonders what the indirect coenec

Jumper's Knee Can Be Treated Under Only Local Anesthesia

Las Vicas, Nev.-"Jumper's knee," a partial rupture followed by degenerative changes of the deeper fibers of the patellar tendon adjncent to the patella, can be treated successfully by excision of the affected area under local anesthesia, it was reported here by two investigators from Duke University Medical Center.

The entity, which is not easily recognized, has been given its name because jumping activity seems to precipitate the nain in the majority of athletes with this problem, Drs. Frank H. Bassett III and Panayiotis Soucacos told the annual meeting of the newly formed American Orthopaedic Society for Sports Medicine.

The 12 patients in their series, all college or professional athletes, "complained of only one thing-pain, well localized to the region of the inferior pole of the patella and community reproducible by practicing or competing in their particular athletic event." The pain was further charncterized by insidious onset; none of the patients could remember a specific traumatic event.

It was found that pain was elicited by the act of deceleration rather than acceleration. The patients who were basketball players, for example, had pain when they came down with the rebound or tried to stop suddenly on defense.

On examination of the offected kuce. enderness was always easily elicited with he patient's knee in full extension. With

the knee flexed, the tenderness was difficult to elicit. The remainder of the examination was negative.

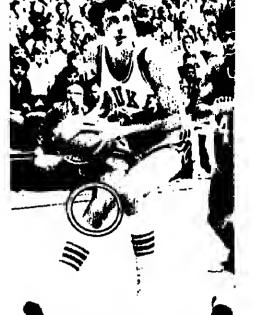
The treatment of choice is rest, the investigators said. Rigid immobilization was found to be of no greater benefit than rest alone, and steroid injections were not of Insting value. Even with periods of rest up to six months, symptoms may recur when athletic activity is resumed.

Because most athletes ore not willing to atop competing, "surgery is the only therapy we have found that provides pennanent and lasting benefit," the physicians

Operation Canaldered Minor

They described the operation as minor, and explained that local anesthesin is used because the affected area is small and eireumseribed and identification of the pathology is difficult unless the patient can guide the surgeon to the area of tenderness.

The procedure was described as follows: Each layer of tissue is anesthetized in succession until the patellar tendon is exposed. On the surface it appears normal. but by palpation the source of pain can be identified. With additional anesthesia at that point, the superficial fibers are spread longitudinally and the area of pathology can then be found deep within the tendon. The lesion is excised until nnrmal-appearing fibers are seen circumferentially, and the defect is closed by longitudinal apposition of the tendon



Here, a player placea atress on his knee as he cames to a sudden stap. The position s likely to cause the injury "jumper's knee" that is associated with deceleration.

fiber, usually requiring one or two inter rupted sutures.

The patient is allowed to bear weight the following morning with a light compression dreasing about the knee. Kace motion is encouraged as soon as pain can be tolerated. Athletic activity is withheld for six weeks.

The 12 paticots were Ioltowed from and to 12 years. Teo had complete relicit of symptoms, oue had partial relief, and ane (the earliest in the aerlea) actieved no reticf.

One of the 10 with complete relief was a tennis player, another was a field-gonl kicker, and the rest played basketball.

Scale Relates Life Crises to Illness Onset

New York-A scale that helps predict stress-related lilness, bnaed on 43 events In life that require changa in the individual's adjustment, has been devised at the University of Washington School of

Medicine, Seattle. Heading the list of these events is death of a spouse, with divnree, marital separation, a juit term, and death of a close family member also appearing high on the scale (see accompanying table). Mnrriage, retirement, and sex difficulties outrunk such financial trouble as foreclosure of a mortgage, which is only one point helow trouble with in-laws. Changes in sleeping habits, a vacation, and Christmas all rank above minor violations of the law.

Studies by Dr. Thomas H. Holmes and Minoru Masuds, Ph.D., both Professors of Psychiatry, indicate that "the concept of life change appears to have relevance to the causation of disease, time of onset of disease, and severity of diaease," Dr. Holmes told a conference on "Stressful Life Evants: Their Nature and Effects" at the Graduate Center of the City University of New York.

Beginning in 1949, more thao 5,000

patients were studied to determine the quality and quantity of life ovents that were clustered at the time of disease onset. he said. On the basis of these observations, a Social Resdigstment Rating Scala (SRRS) was developed.

Far all the tife events listed, said Dr. Holmes, "the couphasts is on changa from the existing stendy state, and not on psycholagical nichning, emotios, or social

Merriage Was Reted 500

In rating the life events, marringe was given an arbitrary value of 500. Ench of 394 subjects was instructed to indicate a numerical value for each of the remaining 42 life events. If an event was more intense and protracted than marriage, a proportionately larger number than 500 was to be chosen. If less end shorter readjustment was required, a proportionately smaller number was assigned.

The SRRS represents the meao score, divided by 10, of each item for the entire sample and arranged in order of rank. Sress change values of life events are measured in "life change units" (LCU). study of 88 subjects who listed all major health changes by year of occurrence in the previous to years. Eighty-nine of the mojor health changes

reported, or 93 per cest, ware assaclated with a clustering of tife changes whose values on the SRRS totaled at least 150 LCU a year, Dr. Holmes reported.

A life crisis was therefore defined as any clustering of life-change events whose values totaled 150 LCU. The health change itself was not included as one of

the life changes in the total for the year. A direct reintionship was observed between the magnitude of the life crisis and the risk of heofth change, Dr. Holmes said. Of the subjects with life crises between 150 and 199 LCU, 37 per cent lind an associated heatth change. This essociation rose to 51 per ceot for crises subjects with scores between 200 and 299 LCU, and to 79 per ceot with scores of 300 LCU or

Further studies, he added, "auggest that the greater the life change or adaptive requirement, the grester the vulaerability or lowering of resistance to disease, and the more serious the disease that does de-

Life Events That Appear to Affect Health Are Ranked

a	and months that office					
a	RANK	LIFE EVENT	MEAN VALUE	RANK	LIFE EVENT	MEAN VALUE
be	4	Death of apoure	100	23	Son or daughter looving home	29
~		Divorce	73	24	Trouble with In-laws	29
	2	Merital asparation	85	25	Outstanding personal achievement	. 28
es	3	Jeji farm	63	26	Wite begins or otops work	26
k,	4	Death of close temlly mamber	63 -	27	Begin or end school	26
nd		Parsonal injury or lilness	53	28	Chongo in living conditiane	25
ts	7	Merriego	80	29	Revision of personal habits	24
-3		Fired at work	47	30	Trouble with boss	23
1	9	Merital recanciliation	45	31	Changa in work hours or conditions	20
'n,	10	Rallramant	45	32	Chonga in residence	20
of	11	Change in health of lemily member	44	33	Change in eahools	20
n-	12	Pregnancy	40	34	Chango in recreetion	19
-	13	Sax difficulties	39	35	Chango in church sotivitias	19
on	14	Gain of new ismily member	39	38	Change in sociol activities	18
-15	15	Rusinges readiuniment	38	37	Mortgaga ar toen less than \$10,000	17
	18	Change in tinenalot atel	38 37	38	Chongo in elseping habits	18
er	17	neath of close Irland	38	. 39	Change in number of lamily gat-lagothers	
C-	18	Change to dillerent line of work		40	Change in enting habits	15
be	19	Change in number of arguments with opposit	6 35		Vacation	· 13
	20	Mortgage over \$10,000	31 30	41	Christmes	12
C-	21	Foreclosure of mortgege ar losh	- 00	· 42	Elinas vialellass at the law	12